

Service Manual

Radio
RF-6300LBS

Supplement-1

FM-LW-MW-SW Multi-Band Receiver
with Phase-Locked-Loop Synthesizer

Main change.

- * Change of Circuit Board.

How to Distinguish the model between RF-6300LBS and RF-6300LBS supplement-1.

- * The suffix is changed from A to C.



 **Panasonic**

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka, Japan

SPECIFICATIONS

LW/MW/SW1

Frequency Range:	LW 150~410kHz (2000~732 m)
	MW 520~1610kHz (577~186 m)
	SW1 1.6~3.9 MHz (187~76.9 m)
Type:	Single Superh�terodyne with Phase-Locked-Loop Synthesizer
IF:	455 kHz
Sensitivity:	S/N 6dB S/N 26 dB
	LW 70�V/m 600�V/m
	MW 30�V/m 400�V/m
	SW1 30�V/m 400�V/m
	(Modulation 400Hz, 30% for 50mW)
Selectivity:	WIDE ± 2.5 kHz (�6dB)
	± 15 kHz (�60dB)
	NARROW ± 1.7 kHz (�6dB)
	± 6 kHz (�60dB)
Image Interference Ratio:	LW 45 dB (at 280 kHz)
	MW 40 dB (at 1000 kHz)
	SW1 50 dB (at 2.8 MHz)

SW2~5

Frequency Range:	SW2 3.9~7.0 MHz (76.9~42.9 m)
	SW3 7.0~12.0 MHz (42.9~25 m)
	SW4 12.0~20.0 MHz (25~15 m)
	SW5 20.0~30.0 MHz (15~10 m)
Type:	Double Superheterodyne with Phase-Locked-Loop Synthesizer
IF:	1 st IF 2.6 MHz
	2nd IF 455 kHz
Sensitivity:	S/N 6 dB S/N 26 dB
	SW2 1.2�V 12�V
	SW3 0.8�V 8�V
	SW4 1.0�V 10�V
	SW5 1.0�V 10�V
	(Modulation 400 Hz, 30% for 50 mW)
Selectivity:	WIDE ± 2.5 kHz (�6 dB)
	± 15 kHz (�60dB)
	NARROW ± 1.7 kHz (�6 dB)
	± 6 kHz (�60dB)
Image Interference Ratio:	SW2 65 dB (at 5.5 MHz)
	SW3 60 dB (at 9.5 MHz)
	SW4 55 dB (at 16 MHz)
	SW5 45 dB (at 25 MHz)

FM

Frequency Range:	87.5~108 MHz
Type:	Single Superheterodyne with Phase-Locked-Loop Synthesizer
IF:	10.7 MHz
Sensitivity:	2�V/75� (�3 dB, Limit. Sens.)
	2.5�V/75� (S/N 26 dB)
Two-Signal Selectivity:	70 dB (± 400 kHz)
Image Interference Ratio:	50 dB (at 98 MHz)

Frequency Display

Display Type:	7-Segment Fluorescent Tube
Precision:	Direct Readout to 1 kHz for AM
	Direct Readout to 10 kHz for FM

Number of Figures:
Frequency Stability:

5 digits
Within 100 Hz during any 60 minutes
after warm-up

Tuning

Type:	Click-Stop, Rotary Encoder
	Digital Tuning
Tuning Speed Ratio:	Fast:Slow = 10:1

Preset Memory

Number of Preset:	12-Station Preset
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Clock

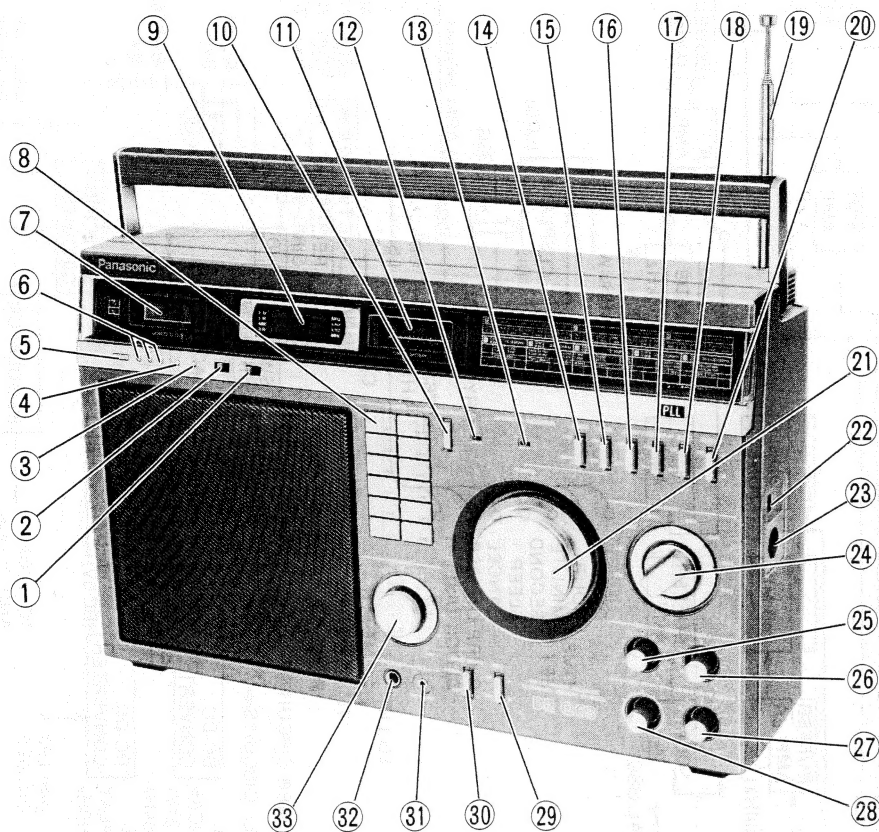
Type:	LCD Quartz Clock
Function:	Real-Time (Hour, Minute, Second)
	Display Alarm Time (Hour Minute)
	Display
	Doze
	Sleep
	Wake-up to Radio or Chirp Alarm
	Sleep/Alarm Cancel
Precision:	Monthly Difference ± 15 seconds.
	(16�C temperature, 50% humidity)

General Specifications

Semi-conductors:	IC 17
	Transistor 87
	FET 8
Output Power:	4 W (DC; MAX.)
	4W (AC, MPO)
Speaker:	12cm (8�)
Power Source:	AC 110~125/220~240V, 50/60 Hz
	DC 9V (6 x UM-1, "D")
	6V (4 x UM-3, "AA") ... Back-up
	for Memory & Clock
	DC in 9V
Power Consumption:	15 W
Jacks:	Earphone/External Speaker (3.5�)
	Headphones (6�)
	Rec out/Phono (DIN Type)
	AC in
	DC in
Antennas:	FM/SW Whip Antenna 1010 mm
	LW/MW Ferrite Core Antenna
	10� x 180 mm
	SW1 Ferrite Core Antenna
	10� x 100 mm
	FM/LW/MW/SW
	External Antenna (one-touch)
Dimensions (W x H x D):	435 x 281 x 131 mm
	(17-1/8 x 11-1/16 x 5-3/16)
Weight:	5.2 kg (11 lb. 7.4 oz)
	without batteries

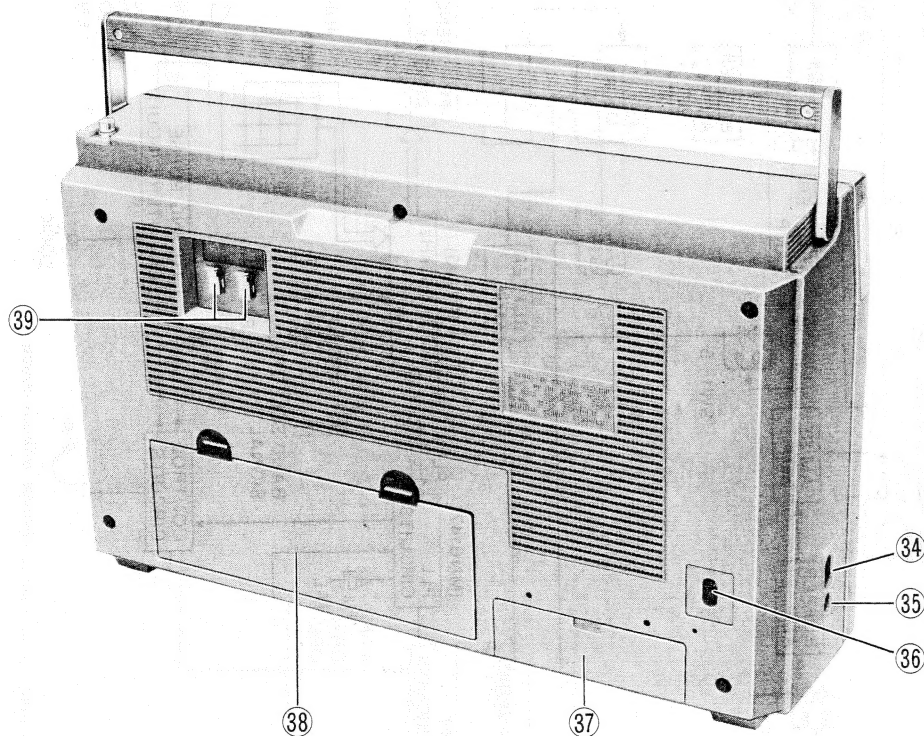
Specifications subject to change without notice.

LOCATION OF CONTROLS



[Fig. 1]

- ① Clock Display Selector (Time/Sec/Alarm)
- ② Chirp Switch
- ③ Sleep/Alarm Cancel Button
- ④ Sleep Set Button
- ⑤ Doze Button
- ⑥ Time Set Button (H/M/S)
- ⑦ Clock Display
- ⑧ Preset Channel Button
- ⑨ Digital Frequency Display
- ⑩ Cancel/Memory Button
- ⑪ Tuning/Battery Meter
- ⑫ Memory Indicator
- ⑬ Operation Indicator
- ⑭ Tuning Speed Selector (Fast/Slow)
- ⑮ Tuning Lock Switch
- ⑯ Light Switch
- ⑰ Digital Frequency Display Switch
- ⑱ Auto Switch
- ⑲ Telescopic Antenna
- ⑳ Radio Switch
- ㉑ Tuning Control
- ㉒ Radio/Phone Selector
- ㉓ DIN Connector Jack
- ㉔ Band Selector (FM/LW/MW/SW₁/SW₂/SW₃/SW₄/SW₅)
- ㉕ Bass Control
- ㉖ Treble Control
- ㉗ LW/MW/SW RF Gain Control
- ㉘ BFO Pitch Control
- ㉙ BFO On/Off Switch
- ㉚ Band Width Selector (Narrow/Wide)
- ㉛ Earphone/External Speaker Jack (Imp 8Ω only)
- ㉜ Headphones Jack
- ㉝ Volume Control
- ㉞ AC Socket
- ㉟ DC IN Jack
- ㊱ AC Voltage Selector
- ㊲ Clock/Memory Back-up Battery Compartment
- ㊳ Main Battery Compartment
- ㊴ External Antenna Terminal



[Fig. 2]

Block diagram of the radio receiver circuit.

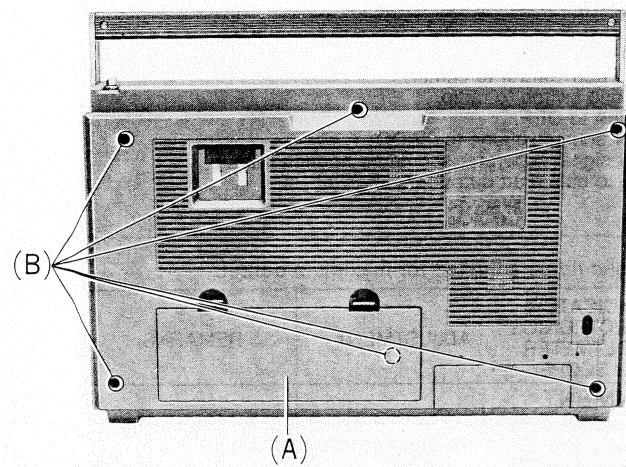
The diagram illustrates the internal components and signal flow of a radio receiver. Key sections include:

- Antennas:** AM FM WHIP ANT, EXT ANT.
- FM Section:** FM RF AMP, FM OSC, MIX, CF $\times 3$ IF AMP, FM AF AMP, BFO PITCH CONTROL, BFO OSC, SSB/CW DET, SSB/CW AF AMP, AF FILTER, METER AMP, AGC CIRCUITS.
- AM/SSB Section:** AM RF AMP, LWMW, SW1 ~ 5 , 1st MIX, DOUBLE TUNE, BUFFER AMP, 2nd MIX, DOUBLE TUNE, IF AMP, WIDE 455kHz CF, NARROW, IF AMP, DOUBLE TUNE.
- Frequency Synthesis:** PLL CIRCUITS (MN6147), 4.5MHz CRYSTAL OSC, PLL CODE, (MP4763) OSC ≈ 900 kHz μ COM, FREQUENCY DISPLAY FL, MEMORY KEY, TUNING PULSE COUNTER CIRCUITS, TUNING LOCK, ROTARY ENCODER.
- Control and Display:** DOZE HOUR MINUTE SECOND SLEEP CANCEL CHIRP ON/OFF CLOCK DISPLAY, CLOCK LSI (PD833G), CLOCK DISPLAY (LCD), ALARM SIGNAL, CRISTAL OSC 32.768 kHz.
- Power Supply:** RECTIFICATION CIRCUITS, SWITCHING CIRCUITS, REGULATORS (DC 5V, DC 9V), TO μ COM AND CLOCK, TO LIGHT METER CLOCK, TO POWER IC, TO TUNER CIRCUITS, TO PLL CIRCUITS, FOR VARICAP (DC 27V) $f = 35$ kHz, FOR DISPLAY $f \approx 400$ Hz, DISPLAY ON/OFF, BATTERIES 9V, BACK UP BATTERIES 6V.

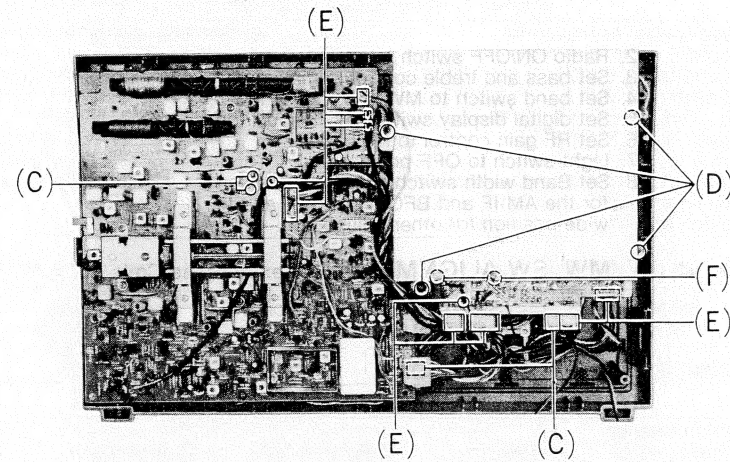
* Block diagram subject to change without notice.

※ Block diagram subject to change without notice.

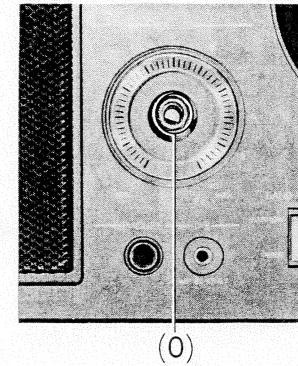
DISASSEMBLY INSTRUCTIONS



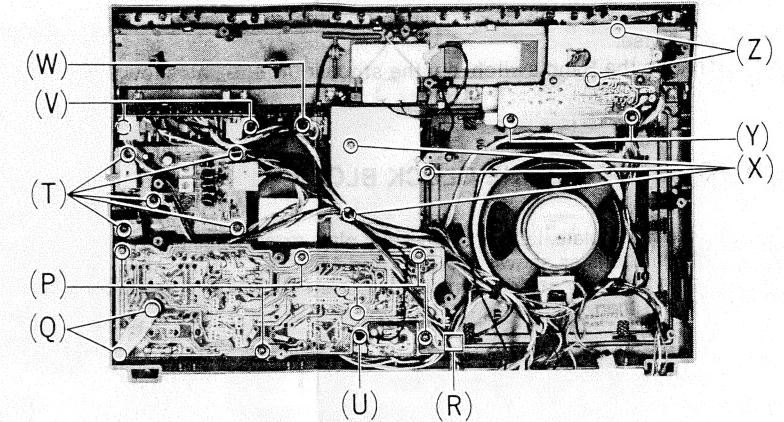
[Fig. 3]



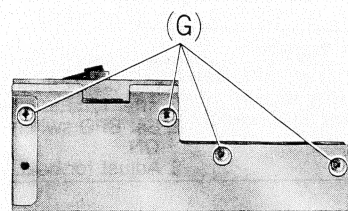
[Fig. 4]



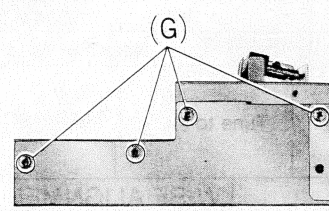
[Fig. 13]



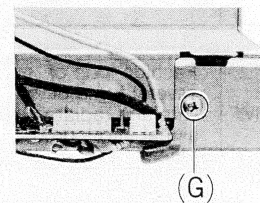
[Fig. 14]



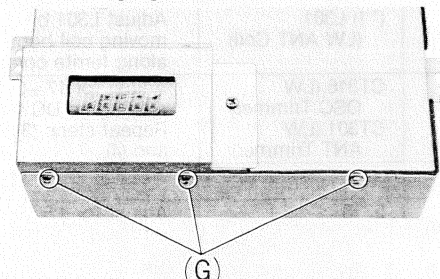
[Fig. 5]



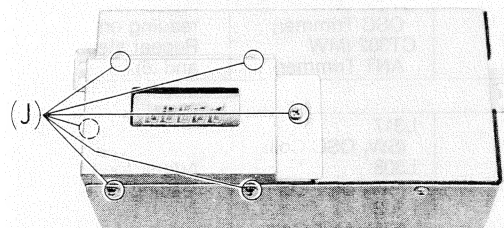
[Fig. 6]



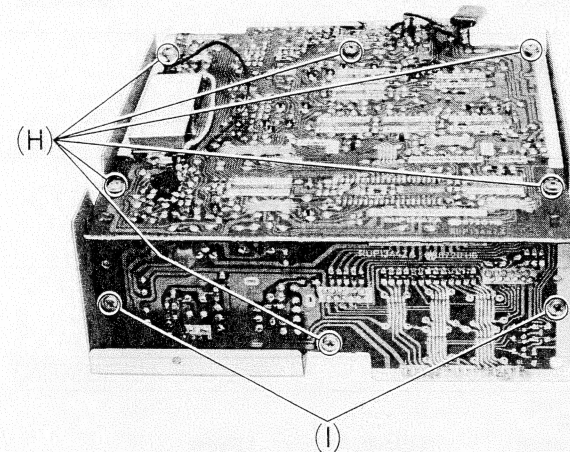
[Fig. 7]



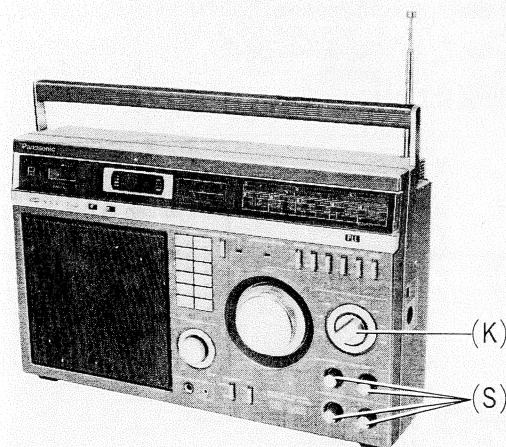
[Fig. 8]



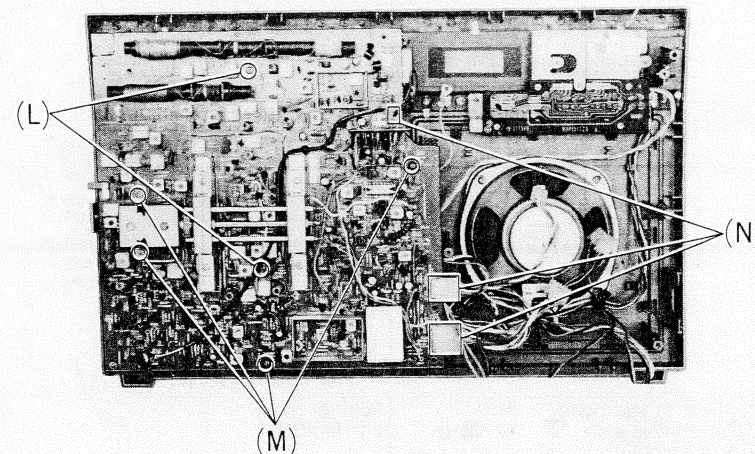
[Fig. 9]



[Fig. 10]



[Fig. 11]



[Fig. 12]

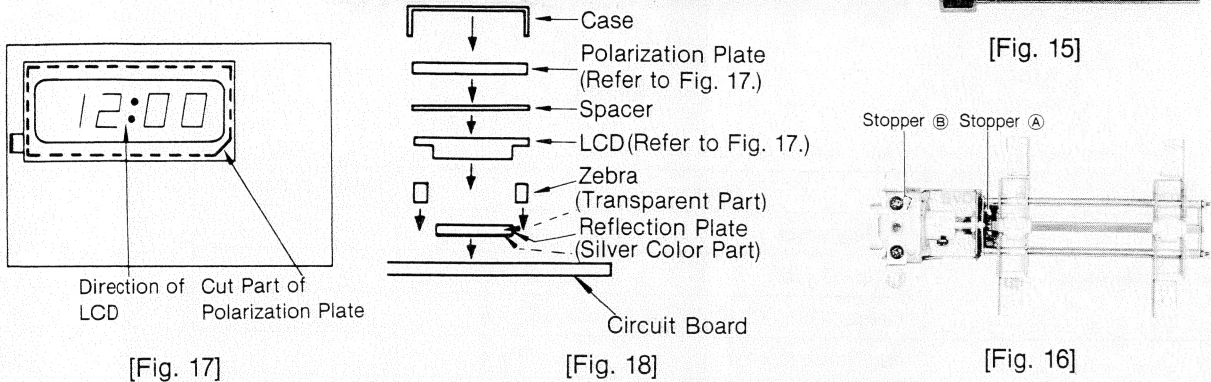
Procedure	To remove —	Remove —	Shown in Fig. —
1	Rear Cabinet Ass'y	Battery cover (A) x 1	3
2		Screw (3 x 35) (B) x 6	3
3		Cocket (CS16, CS10, TM101, TM102) . . (C) x 4	4
4	PLL Block	Red Screw (3 x 12) (D) x 4	4
5		Socket (CS 18, 17, 15, 14, 7, 3, TM1, TM7, TM103, 104) (E) x 10	4
6	PLL Circuit Board (3.4 UP)	Unsolder (F) x 2	4
7		Screw (3 x 6) (G) x 12	5-8
8		Screw (3 x 6) (H) x 6	10
9	Frequency Counter	Screw (3 x 6) (I) x 2	10
10		Screw (3 x 6) (J) x 6	9
11	Tuner Circuit Board (IUP)	Band Knob (K) x 1	11
12		Red screw (3 x 12) (L) x 2	12
13		Red screw (3 x 12) (M) x 4	12
14	Control Circuit Board (2UPa)	Socket (CS2, 5, 6) (N) x 3	12
15		Volume knob & Nut (O) x 1	13
16		Red screw (3 x 12) (P) x 6	14
17		Screw (3 x 35) (Q) x 2	14
18		Socket (CS8) (R) x 1	14
19	DIN Jack Circuit Board (7 UP)	Knob (S) x 4	11
20		Screw (3 x 12) (T) x 5	14
21	Headphone Jack Circuit Board (2 UPe)	Screw (3 x 12) (U) x 1	14
22	Switch Circuit Board (2UPb)	Screw (3 x 12) (V) x 2	14
23	LED Circuit Board (2UPd)	Screw (3 x 12) (W) x 1	14
24	Channel/Memory Circuit Board (2UPc)	Screw (3 x 12) (X) x 3	14
25	Clock/Clock Adjust	Screw (3 x 6) (Y) x 2	14
26	Circuit Board (6UP)	Screw (2.3 x 8) (Z) x 2	14

HOW TO ASSEMBLE THE BAND SWITCH ASS'Y

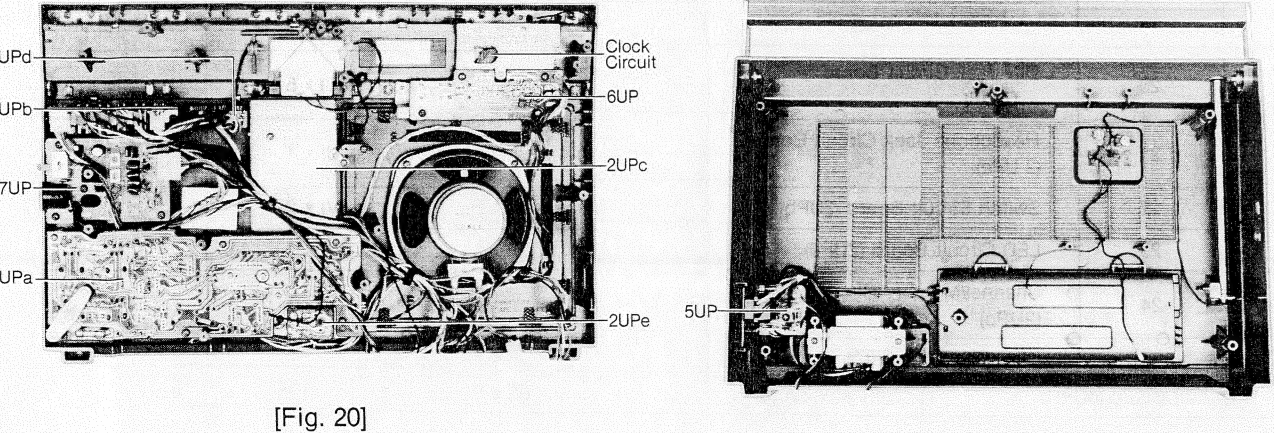
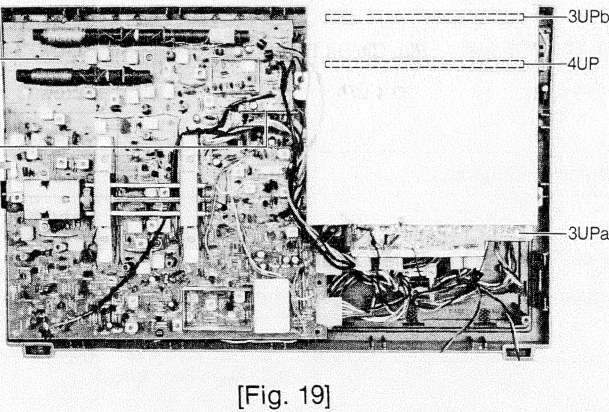
- 1. When fix the Band switch Ass'y, set the switch Lever in the direction of arrow as shown in Fig. 15, and set Band switch rotate switch shaft counter-clockwise.
- 2. When assemble the Band switch, set the stopper ㉑ & ㉒, as shown in Fig. 16.

HOW TO ASSEMBLY THE CLOCK BLOCK

- 1. Note that polarization plate, LCD and reflection plate must be installed under the specified conditions as shown in Fig. 17 and 18.
- 2. Before replacing with new polarization plate, LCD and reflection plate remove the sheet cover of then.



1UPa	Tuner Circuit Board
1UPb	Meter Circuit Board
2UPa	AF Circuit Board
2UPb	Switch Circuit Board
2UPc	Key Board Circuit Board
2UPd	LED Circuit Board
2UPe	Headphone Jack Circuit Board
3UPa	Control Circuit Board
3UPb	Frequency Display Circuit Board
4UP	PLL Circuit Board
5UP	Power Circuit Board
6UP	Switch Circuit Board (Clock)
7UP	DIN Jack & Filter Circuit Board



ALIGNMENTS

ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT					
1. Set volume control to maximum.			9. Set BFO switch to ON position for BFO adjustment, and to OFF position for other adjustment.		
2. Radio ON/OFF switch to ON.			10. Set BFO Pitch control to center.		
3. Set bass and treble control to maximum.			11. Radio/Phono switch to radio.		
4. Set band switch to MW, LW, SW or FM.			12. Auto switch to OFF.		
5. Set digital display switch to OFF position.			13. Set power source voltage to 9V DC.		
6. Set RF gain control to Maximum.			14. Output of signal generator should be no higher than necessary to obtain an output reading.		
7. Light switch to OFF position.					
8. Set Band width switch to narrow position for the AM-IF and BFO adjustmet, and to wide position for other adjustment.					

LW, MW, SW ALIGNMENT Note: Antenna Coils and Trimmers should be adjusted for maximum output.

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
AM-2nd IF ALIGNMENT						
MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455kHz 30% Mode. at 400Hz	Point of non-interference.	Output meter across voice coil.	T203 (AM 1st IFT) T207 (AM 2nd IFT) T208 (AM 3rd IFT) T201 (AM 4th IFT) T202 (AM 5th IFT) T103 (AM 6th IFT)	Adjust for maximum output.
BFO ALIGNMENT						Note: Set band width switch to "Narrow".
MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1000kHz	Tune to signal.	Audio output from speaker.	L203 (BFO OSC Coil)	1. Cut off modulation after tune to signal. 2. Set BFO switch to ON. 3. Adjust for beat.
LW-RF ALIGNMENT						
LW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	150kHz	150kHz	Connect DC VTVM between ⑦ and ⑤	L314 (LW OSC Coil) (*1) L301 (LW ANT Coil)	Adjust for 1.5±0.1V reading on DC VTVM. Adjust L301 by moving coil bobbin along ferrite core.
LW	"	400kHz	400kHz	"	CT316 (LW OSC Trimmer) CT301 (LW ANT Trimmer)	Adjust for 17±0.3V reading on DC VTVM. Repeat steps (3) and (4).
MW-RF ALIGNMENT						
MW	"	550kHz	550kHz	"	L316 (MW OSC Coil) (*1) L301 (MW ANT Coil)	Adjust for 1.5±0.1V reading on DC VTVM Adjust L301 by moving coil bobbin along ferrite core.
MW	"	1500kHz	1500kHz	"	CT317 (MW OSC Trimmer) CT302 (MW ANT Trimmer)	Adjust for 17.5±0.2V reading on DC VTVM. Repeat steps (5) and (6).
SW ₁ -RF ALIGNMENT						
SW ₁	Connect to test point ⑩ ₁ through ceramic capacitor (10pF). Negative side to test point ⑩ ₂ .	1.6MHz	1.6MHz	"	L317 (SW ₁ OSC Coil) L308 (SW ₁ DET Coil) L303 (SW ₁ ANT Coil)	Adjust for 1.5±0.1V reading on DC VTVM.
SW ₁	"	3.9MHz	3.9MHz	"	CT318 (SW ₁ OSC Trimmer) CT309 (SW ₁ DET Trimmer) CT303 (SW ₁ ANT Trimmer)	Adjust for 17±0.3V reading on DC VTVM. Repeat steps (7) and (8).
(*1) Cement antenna bobbin with wax after completing alignment.						
SW 1st LOCAL ALIGNMENT						
SW ₂	—	—	Point of non-interference.	• Connect RF VTVM between ⑧ and ⑤ • Connect Frequency Counter between ⑧ and ⑤	L204 (SW 1st OSC Coil)	• Adjust L204 to a point which is 0.2~0.3dB below the value at which the peak value was shown on the RF Voltmeter. • Adjust L204 for 3.055MHz reading on Frequency Counter.
AM-1st IF ALIGNMENT						
SW ₂	Connect to test point ⑩ ₁ . Negative side to test Point ⑩ ₂ .	2.6MHz	Point of non-interference.	"	T204 (AM 1st IFT) T206 (AM 1st IFT)	Adust for maximum output.

SW ₂ -RF ALIGNMENT						
(11)	SW ₂	Connect to test point 10 ¹ through ceramic capacitor (18PF). Negative side to test point 10 ² .	3.9MHz	3.9MHz	Connect DC VTVM between 7 and E.	L318 (SW ₂ OSC Coil) L309 (SW ₂ DET Coil) L304 (SW ₂ ANT Coil) Adjust for 3±0.1V reading on DC VTVM.
(12)	SW ₂	"	7MHz	7MHz	"	CT319 (SW ₂ OSC Trimmer) CT311 (SW ₂ DET Trimmer) CT304 (SW ₂ ANT Trimmer) Adjust for 17±0.3V reading on DC VTVM. Repeat steps (11) and (12).
SW ₃ -RF ALIGNMENT						
(13)	SW ₃	"	7MHz	7MHz	"	L319 (SW ₃ OSC Coil) L311 (SW ₃ DET Coil) L305 (SW ₃ ANT Coil) Adjust for 3±0.1V reading on DC VTVM.
(14)	SW ₃	"	12MHz	12MHz	"	CT321 (SW ₃ OSC Trimmer) CT312 (SW ₃ DET Trimmer) CT306 (SW ₃ ANT Trimmer) Adjust for 17±0.3V reading on DC VTVM. Repeat steps (13) and (14).
SW ₄ -RF ALIGNMENT						
(15)	SW ₄	"	12MHz	12MHz	"	L321 (SW ₄ OSC Coil) L312 (SW ₄ DET Coil) L306 (SW ₄ ANT Coil) Adjust for 5±0.1V reading on DC VTVM.
(16)	SW ₄	"	20MHz	20MHz	"	CT322 (SW ₄ OSC Trimmer) CT313 (SW ₄ DET Trimmer) CT307 (SW ₄ ANT Trimmer) Adjust for 15±0.3V reading on DC VTVM. Repeat steps (15) and (16).
SW ₅ -RF ALIGNMENT						
(17)	SW ₅	"	20MHz	20MHz	"	L322 (SW ₅ OSC Coil) L313 (SW ₅ DET Coil) L307 (SW ₅ ANT Coil) Adjust for 6±0.1V reading on DC VTVM.
(18)	SW ₅	"	30MHz	30MHz	"	CT323 (SW ₅ OSC Trimmer) CT314 (SW ₅ DET Trimmer) CT308 (SW ₅ ANT Trimmer) Adjust for 15±0.3V reading on DC VTVM. Repeat steps (17) and (18).

FM ALIGNMENT

BAND	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
(1)	FM	Connect to test point 10 ¹ through 0.001μF. Negative side to test point 10 ² .	10.7MHz	Point of non-interference.	T101 (FM IFT) (Primary)	Adjust for maximum amplitude. (Refer to fig. 23.)
(2)	FM	"	"	"	T102 (FM IFT) (Secondary)	Adjust for maximum amplitude. (Refer to fig. 24.)
FM-RF ALIGNMENT						
(3)	FM	Connect to test point 10 ¹ through FM dummy antenna. (Refer to fig. 25).	87.5MHz	87.5MHz	Connect DC VTVM between 7 and E.	L104 (FM OSC Coil) (*2) Adjust for 3.0±0.1V reading on DC VTVM.
(4)	FM	"	90.5MHz	90.5MHz	"	L101 (FM DET Coil) L102 (FM ANT Coil) (*2) Adjust for maximum output.
(5)	FM	"	106MHz	106MHz	"	CT101 (FM DET Trimmer) CT102 (FM ANT Trimmer) "
(6)	FM	"	108MHz	108MHz	"	CT103 (FM OSC Trimmer) (*2) Adjust for 11±0.5V reading on DC VTVM. Repeat steps (3)–(6).

(*2) Three output responses will be preset; proper tuning is the center frequency.

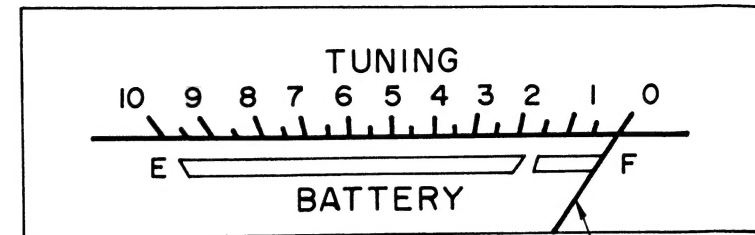
TUNE/BATT METER ADJUSTMENT

1. RADIO RECEIVER SETTING

- Set band switch to MW.
- Set volume control MIN.
- Set Phono/Radio switch to Radio.
- Set power source voltage to 9.8 volts DC.
- Frequency Display switch to ON.
- Light switch to OFF.

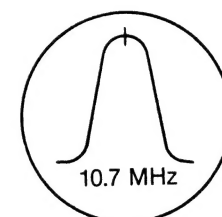
2. REMARKS

- Adjust VR101 so that the pointer of meter says as shown in figure, 22.

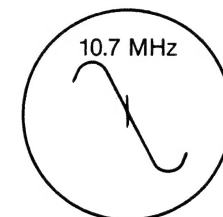


[Fig. 22]

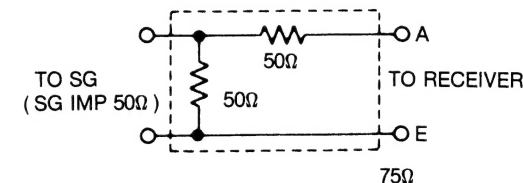
Pointer



[Fig. 23]

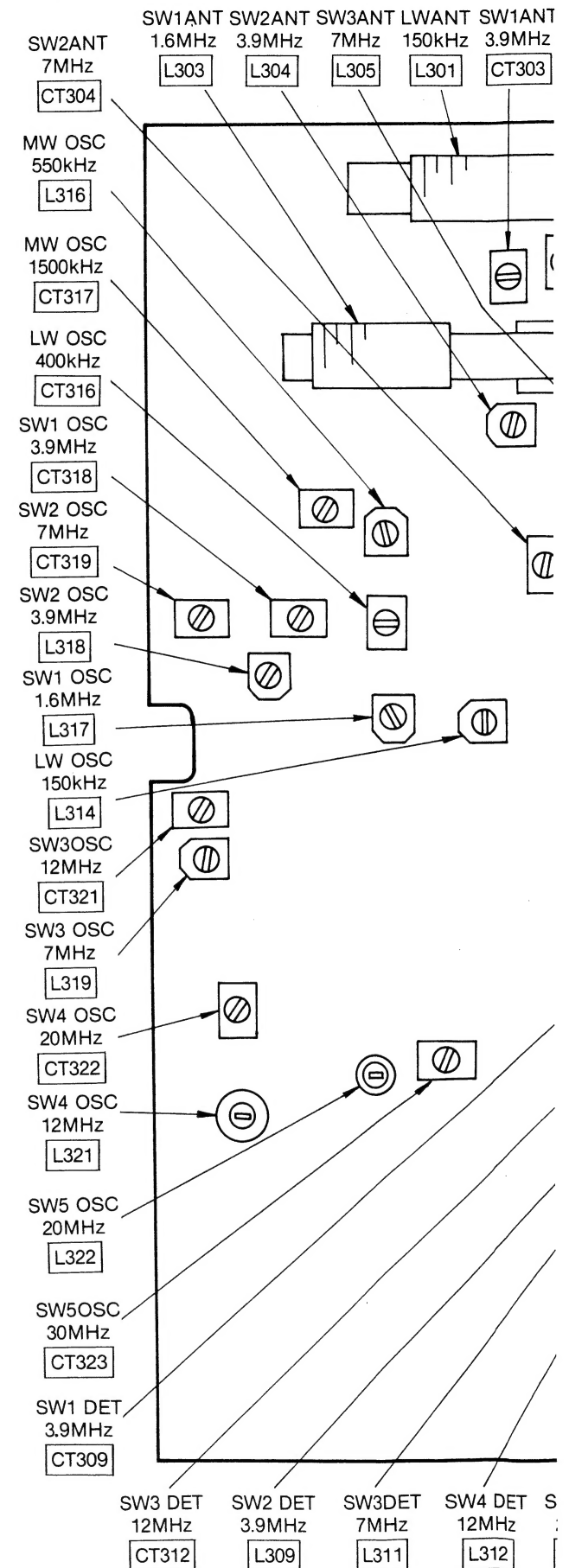


[Fig. 24]



[Fig. 25] FM Dummy Antenna

ALIGNMENT POINTS



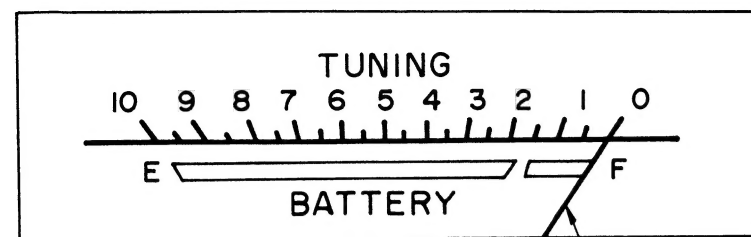
TUNE/BATT METER ADJUSTMENT

1. RADIO RECEIVER SETTING

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- Set Phono/Radio switch to Radio.
- Set power source voltage to 9.8 volts DC.
- Frequency Display switch to ON.
- Light switch to OFF.

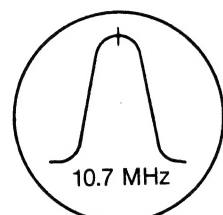
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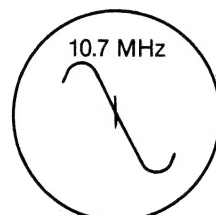


[Fig. 22]

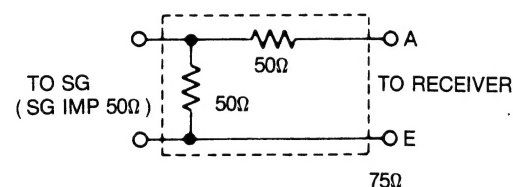
Pointer



[Fig. 23]

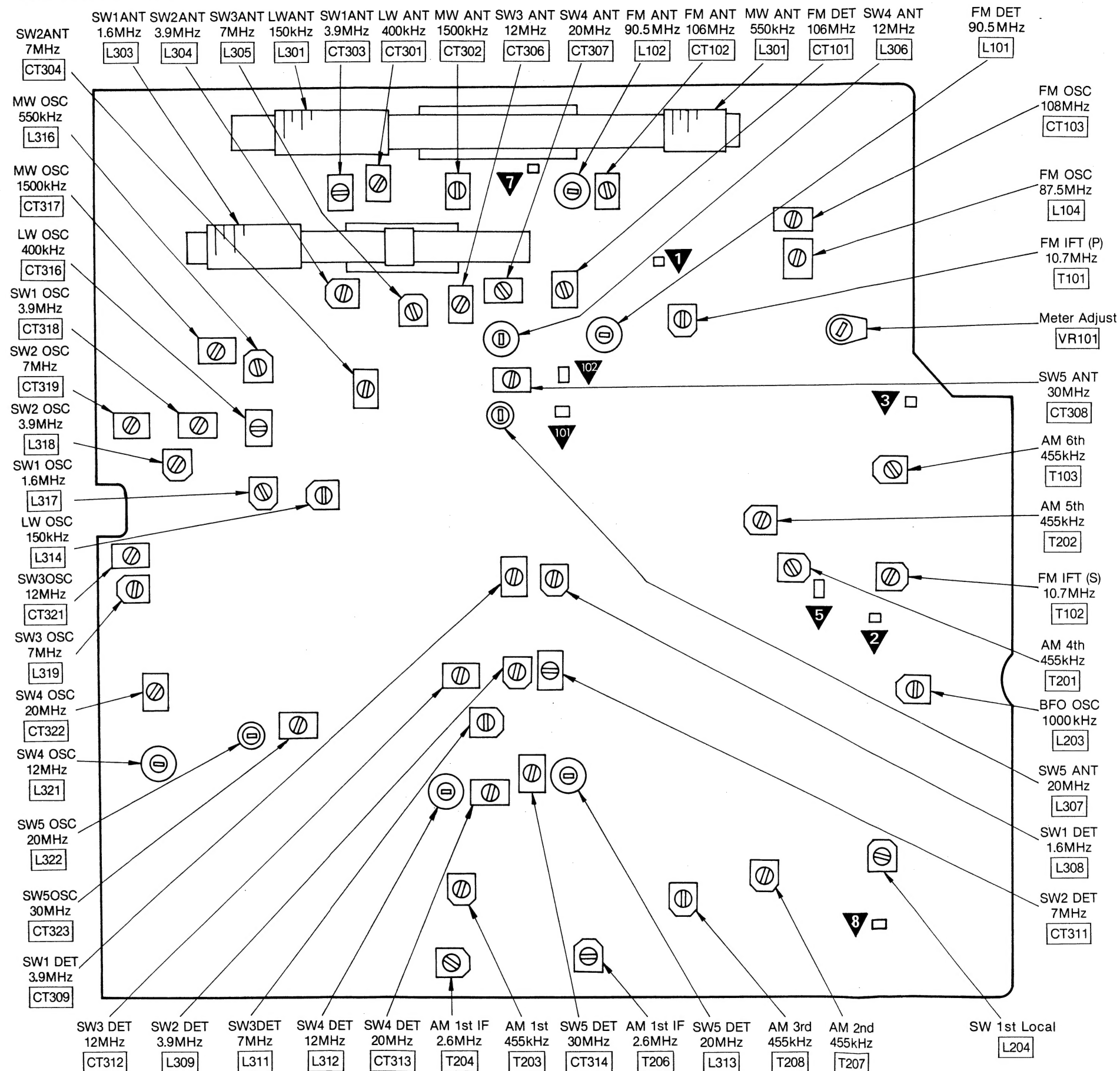


[Fig. 24]



[Fig. 25] FM Dummy Antenna

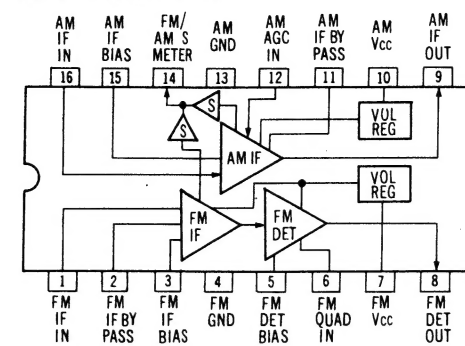
ALIGNMENT POINTS



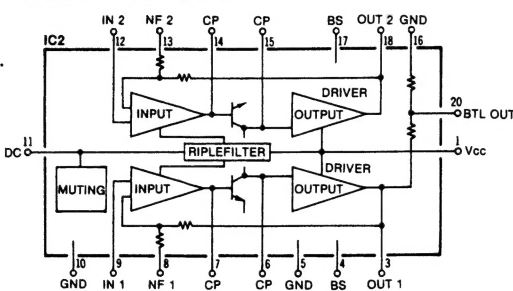
Notes:

1. S1 Radio ON/OFF switch in "OFF ()" position.
2. S2-1, S2-2 Auto ON/OFF switch in "OFF" position.
3. S3 Display ON/OFF switch in "OFF" position.
4. S4 Light ON/OFF switch in "OFF" position.
5. S5 Tuning Lock ON/OFF switch in "OFF" position.
6. S6 Tuning speed Slow/Fast switch in "slow" position.
7. S7 AC voltage selector switch in "220 ~ 240V" position.
8. S8 Power supply AC/DC switch in "AC" position.
9. S9-1, S9-2 BFO ON/OFF switch in "OFF" position.
10. S10-1, S10-2 Band width Wide/Narrow switch in "Wide" position.
11. S24-1 ~ S24-3 Radio/Phono switch in "Radio" position.
12. S301-1 ~ S301-6, S302-1 ~ S302-6 Band selector switch in "FM" position.
(1...SW5, 2...SW4, 3...SW3, 4...SW2, 9...SW1, 10...MW, 11...LW, 12...FM)
13. The mark (▼) shows test point. e.g., ▼ = Test point 1.
14. DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
 ◻ ...FM position, () ...AM position, [] ...LW position,
 < > ...SW5 position, [] ...BFO ON position, < > ...SW4 position.
15. Battery current: No signal. 220 mA
Maximum 1A
16. ▲ indicates that only parts specified by the manufacture be used for safety.

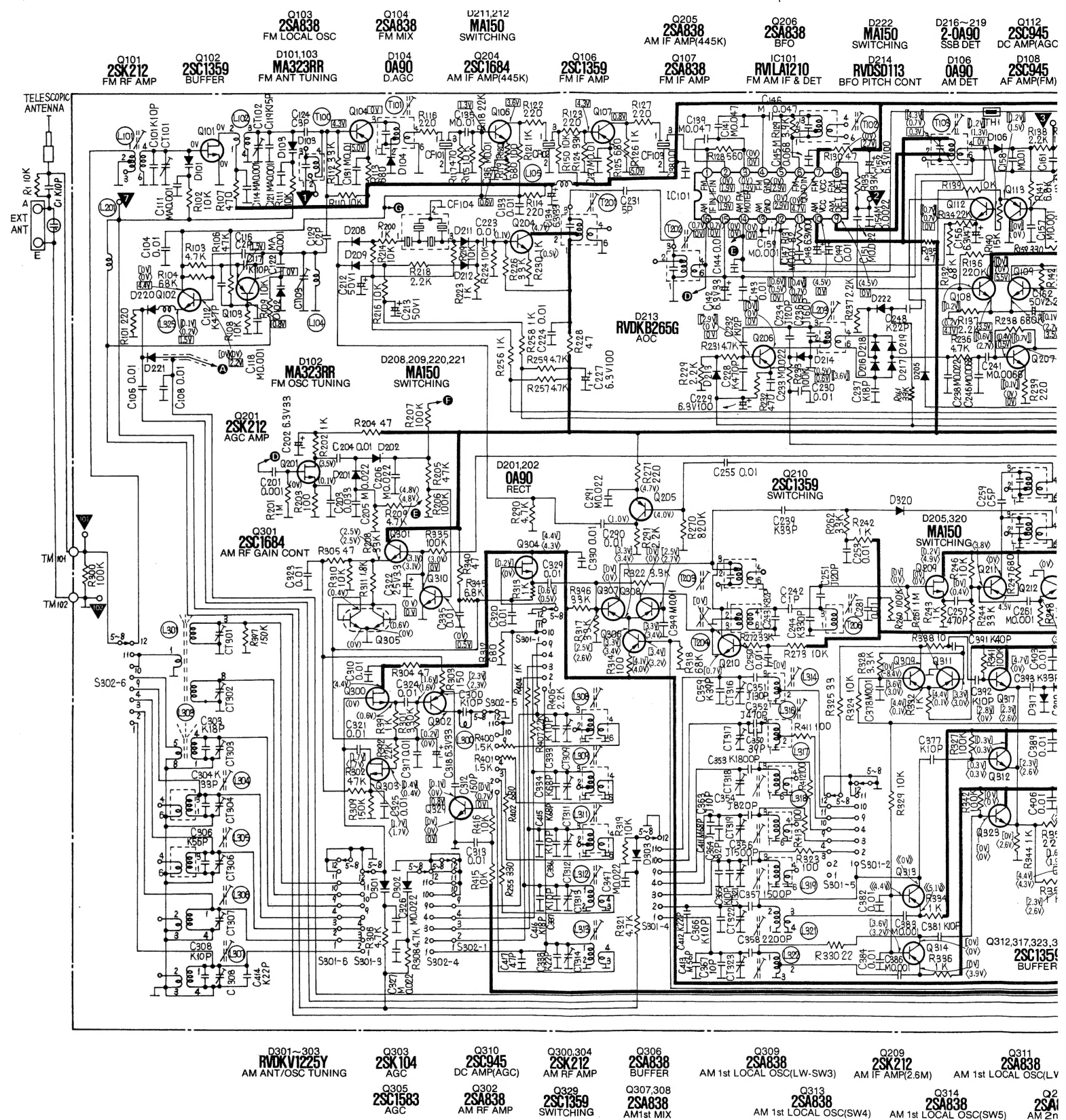
IC101 RVILA 1210



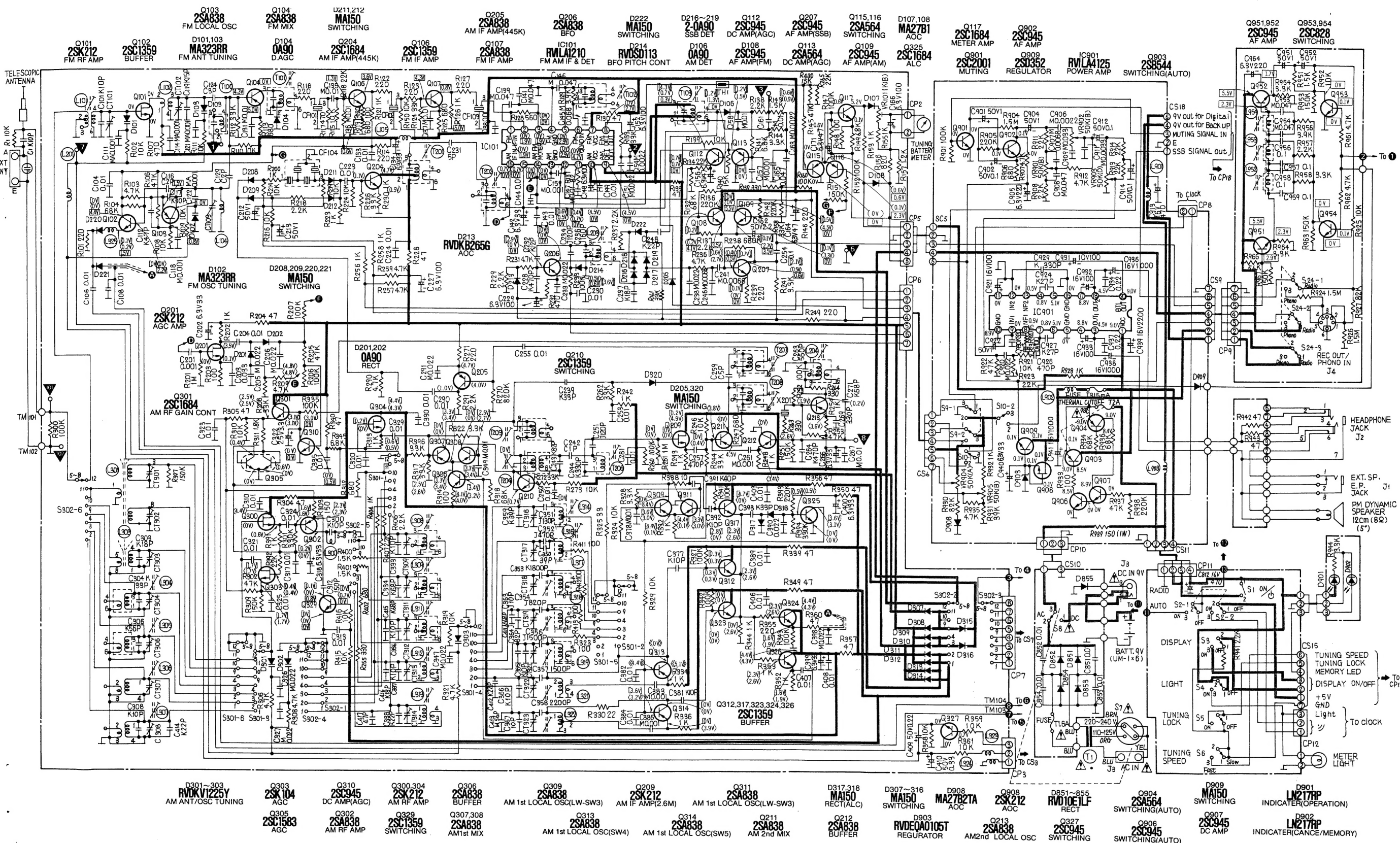
IC901 RVILA 4125



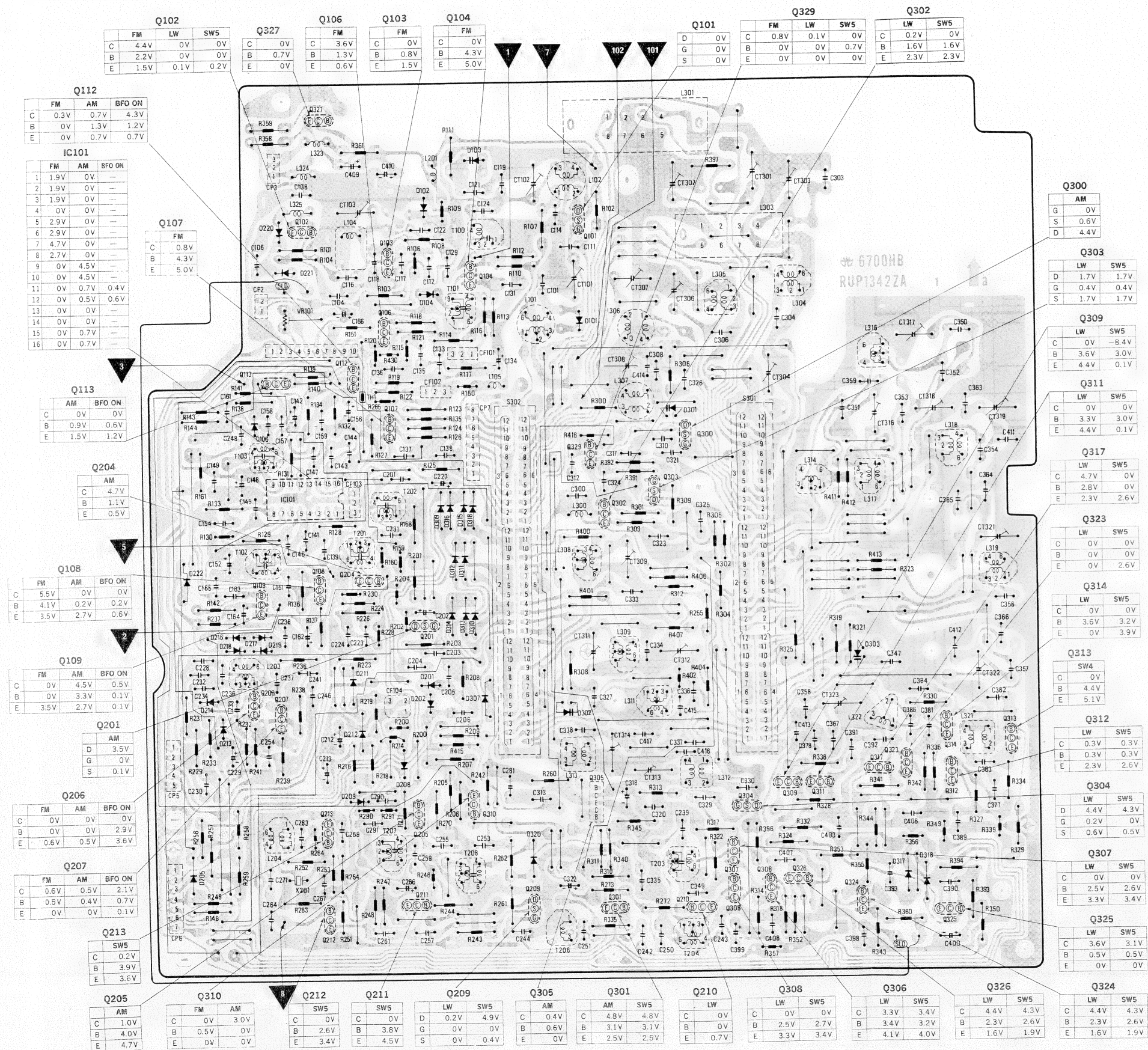
SCHEMATIC DIAGRAM (TUNER, AF, DIN JACK & FILTER, SWITCH, MI



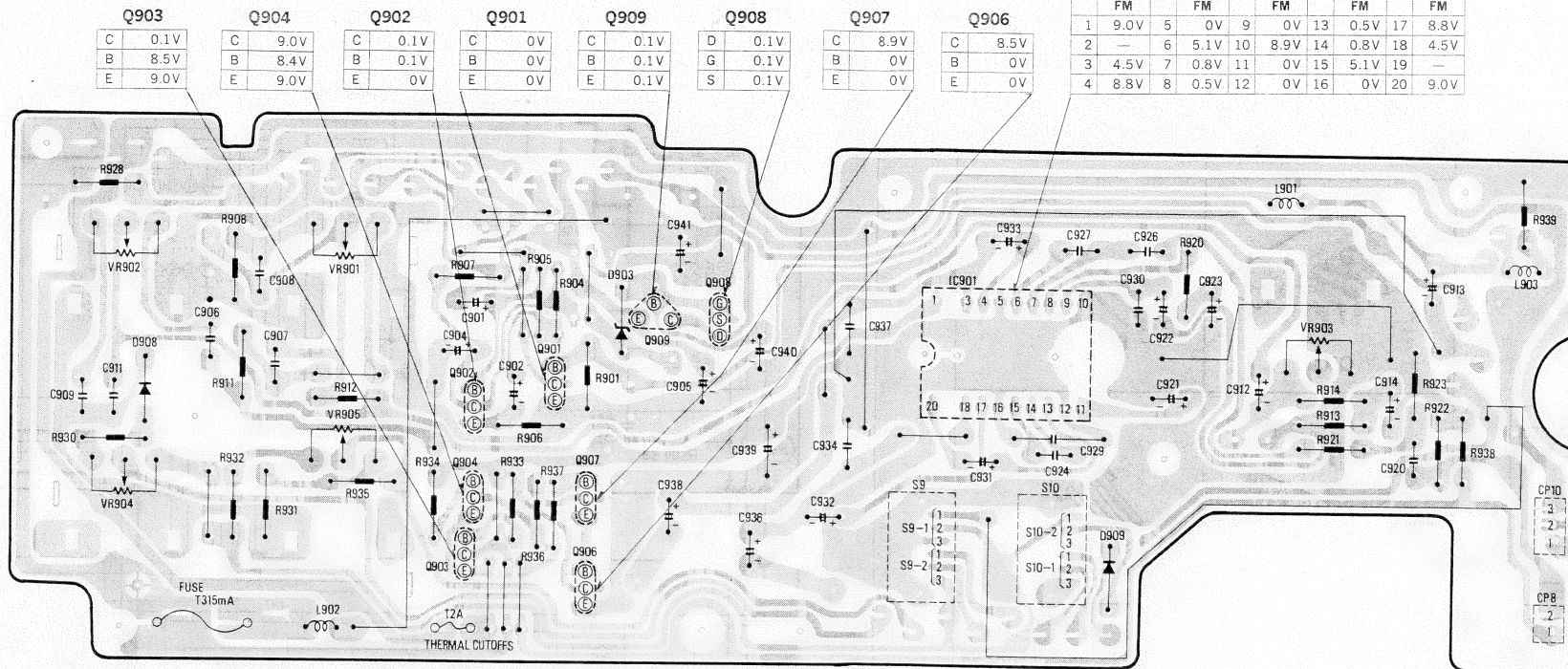
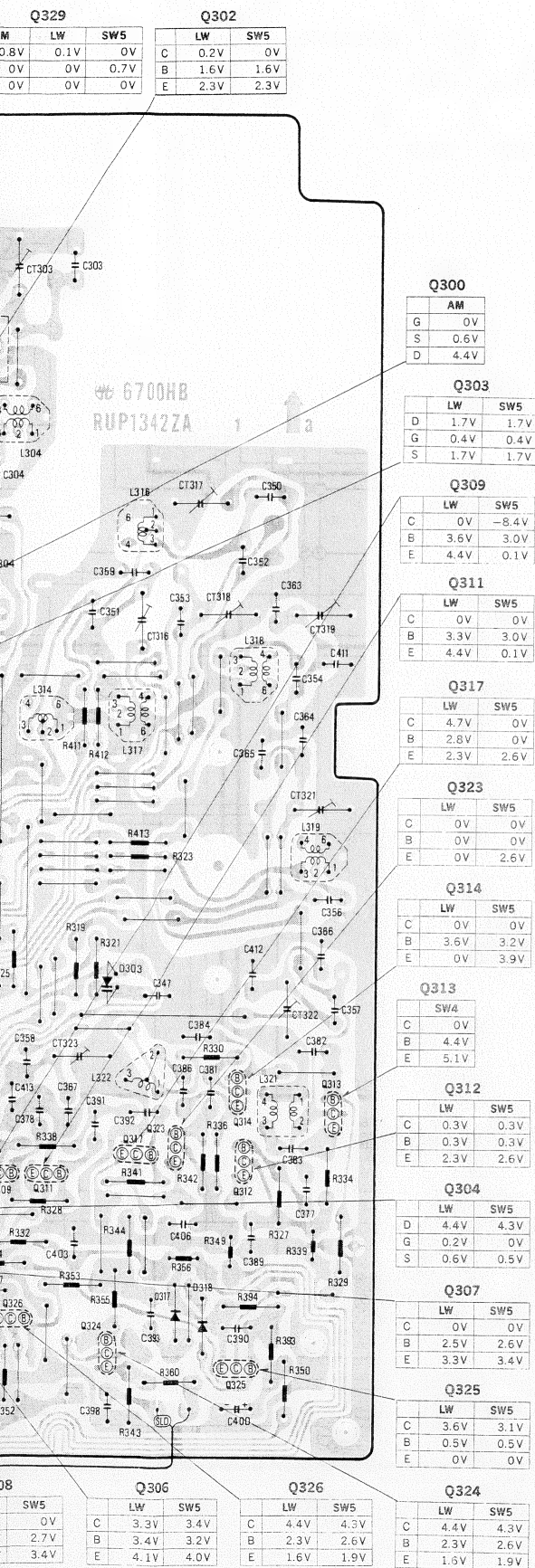
SCHEMATIC DIAGRAM (TUNER, AF, DIN JACK & FILTER, SWITCH, METER, LED, HEADPHONE JACK, POWER CIRCUIT BOARD



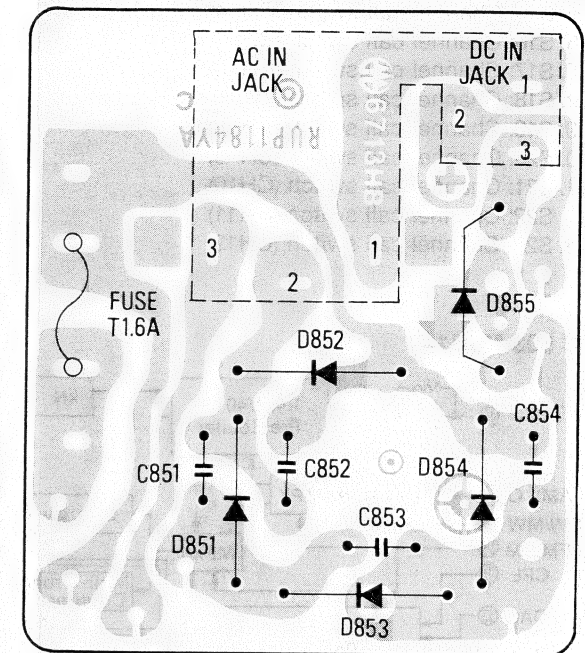
■ TUNER CIRCUIT BOARD



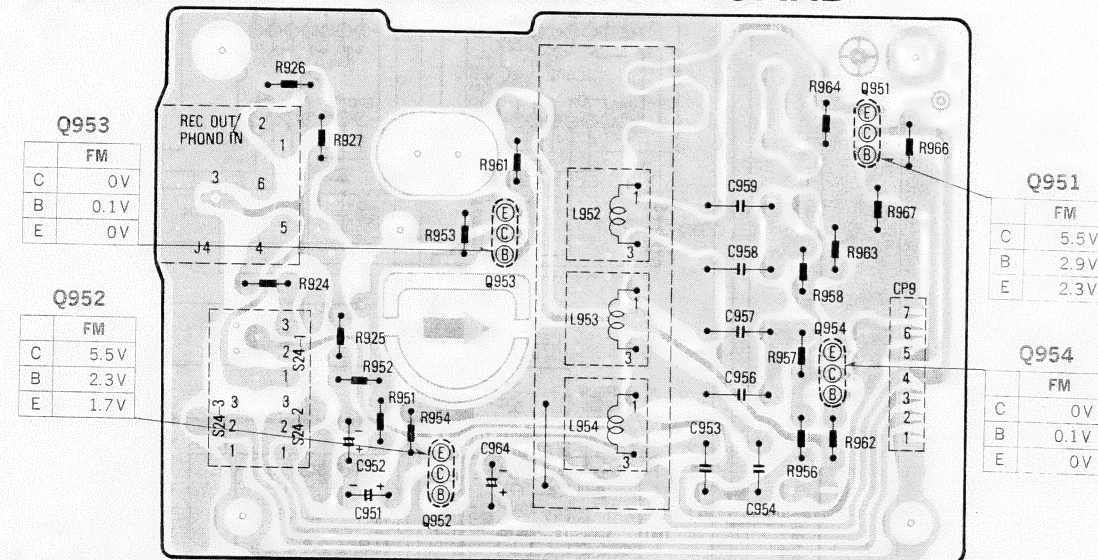
■ AF CIRCUIT BOARD



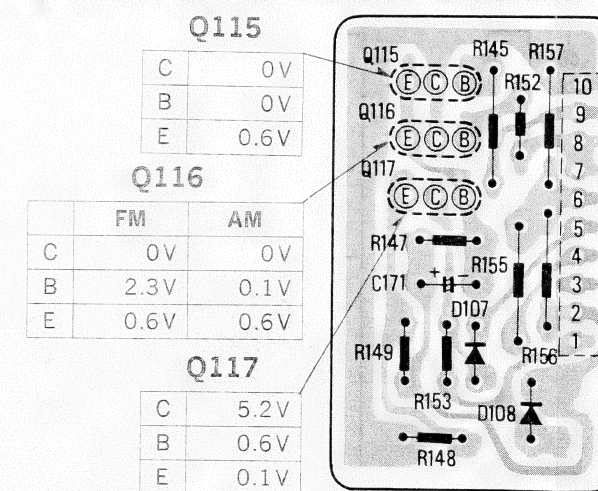
■ POWER CIRCUIT BOARD



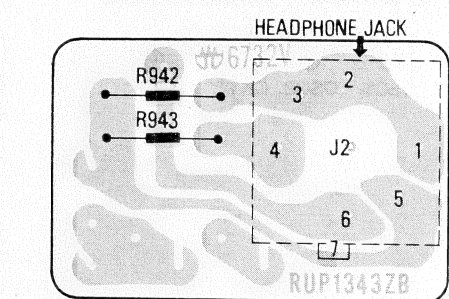
■ DIN JACK & FILTER CIRCUIT BOARD



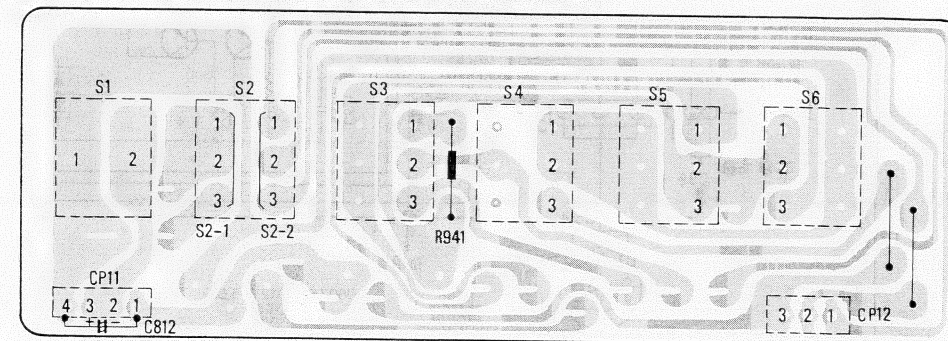
■ METER CIRCUIT BOARD



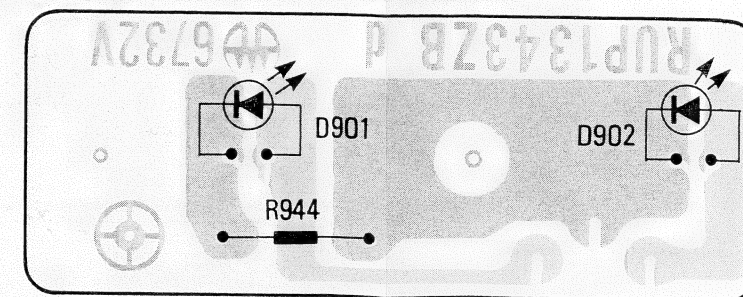
■ HEADPHONE JACK CIRCUIT BOARD



■ SWITCH CIRCUIT BOARD



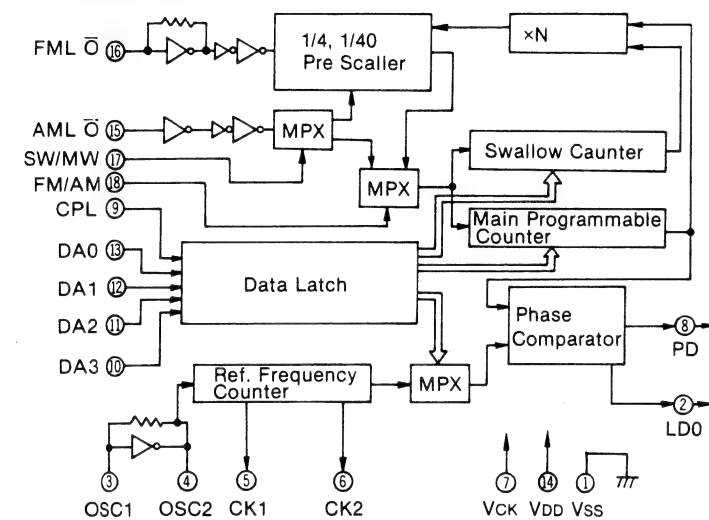
■ LED CIRCUIT BOARD



Notes:

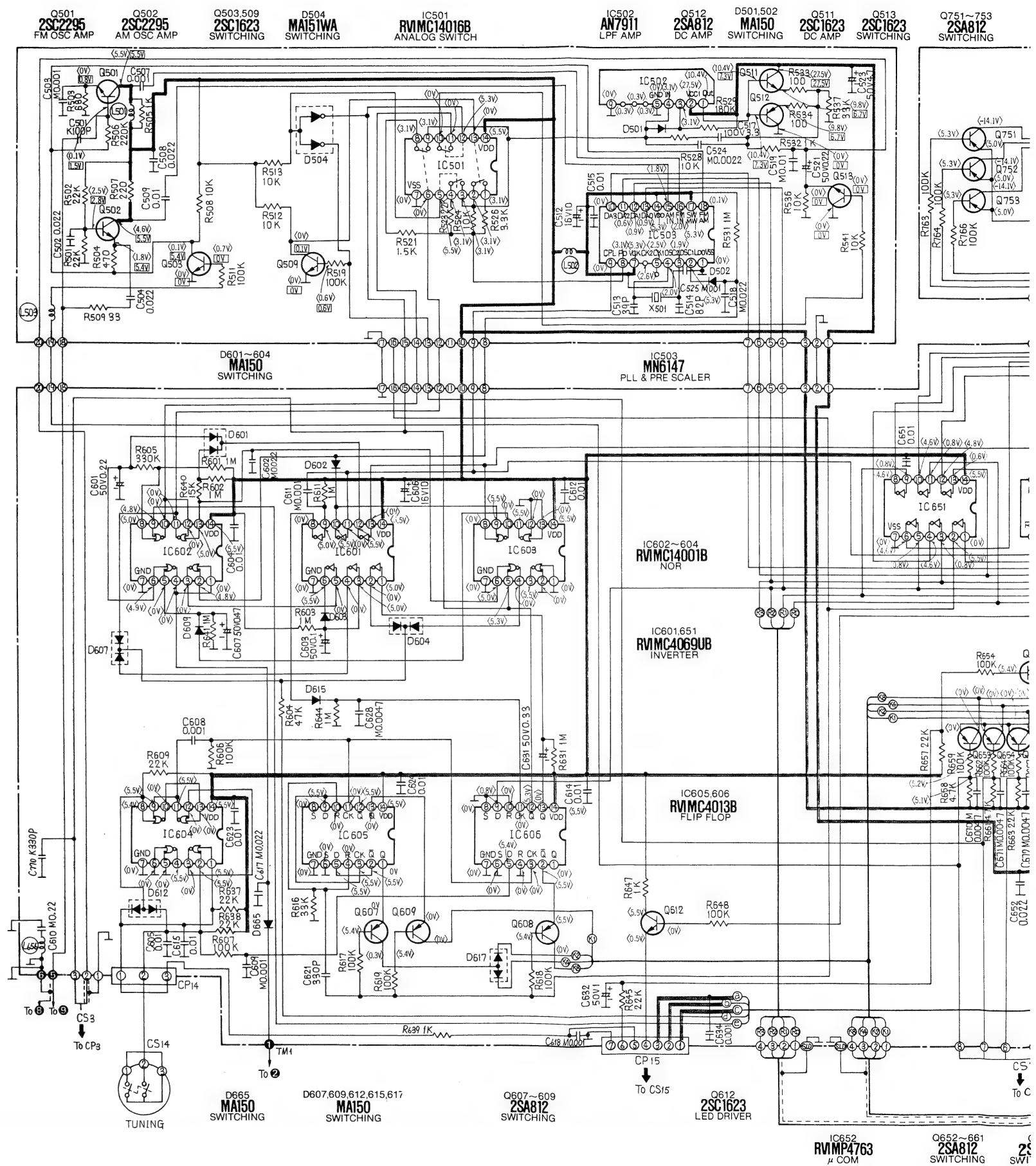
1. S11: Memory switch.
2. S12: Channel call switch (CH 1)
3. S13: Channel call switch (CH 2)
4. S14: Channel call switch (CH 3)
5. S15: Channel call switch (CH 4)
6. S16: Channel call switch (CH 5)
7. S17: Channel call switch (CH 6)
8. S18: Channel call switch (CH 7)
9. S19: Channel call switch (CH 8)
10. S20: Channel call switch (CH 9)
11. S21: Channel call switch (CH10)
12. S22: Channel call switch (CH11)
13. S23: Channel call switch (CH12)

IC 503 MN6147

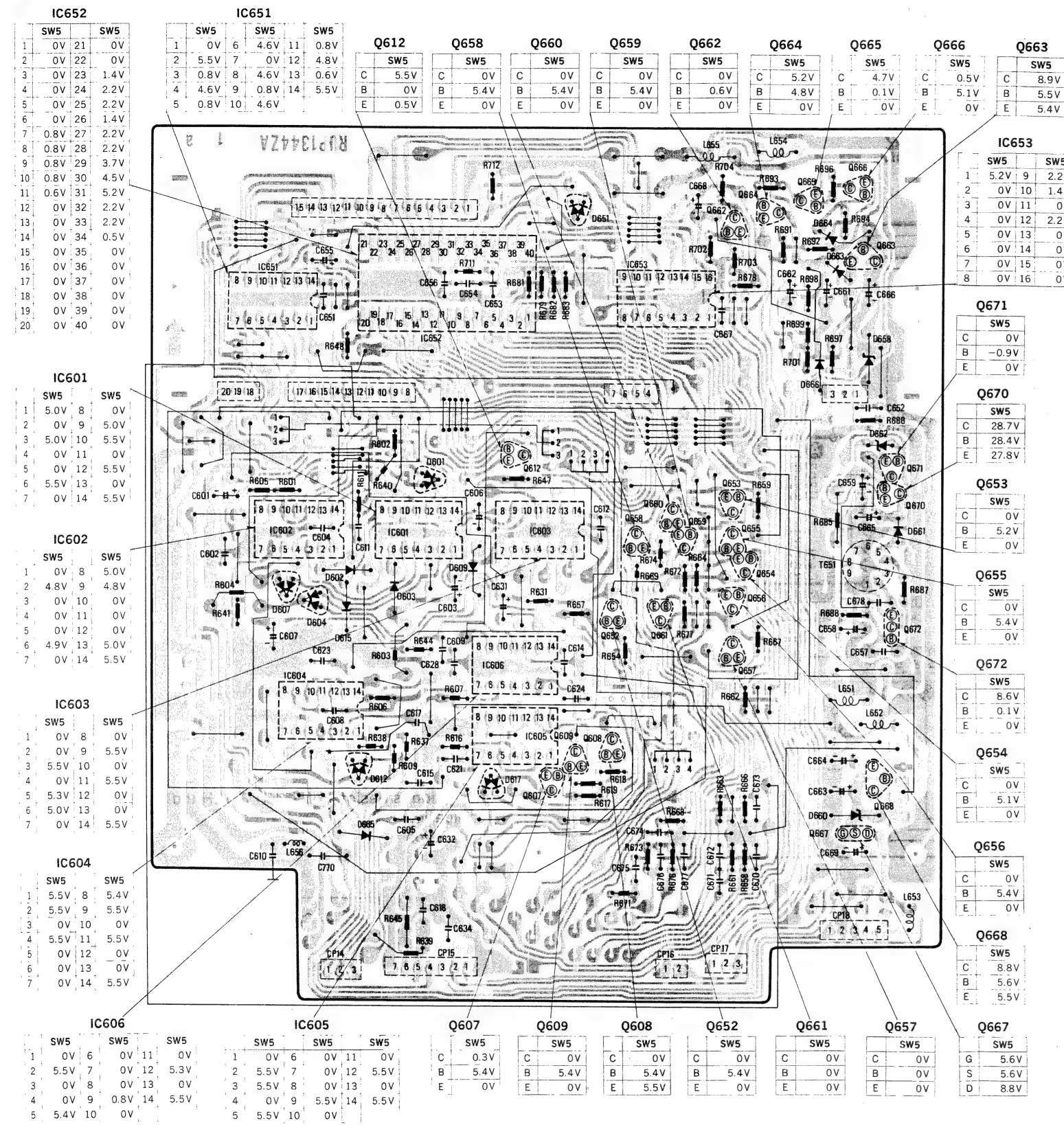


	 Anode D501, 502, 602, 603, 609, 615, 661, 664, 665, 751, 752, 658, 660, 753, 662
	 Anode D663, 666

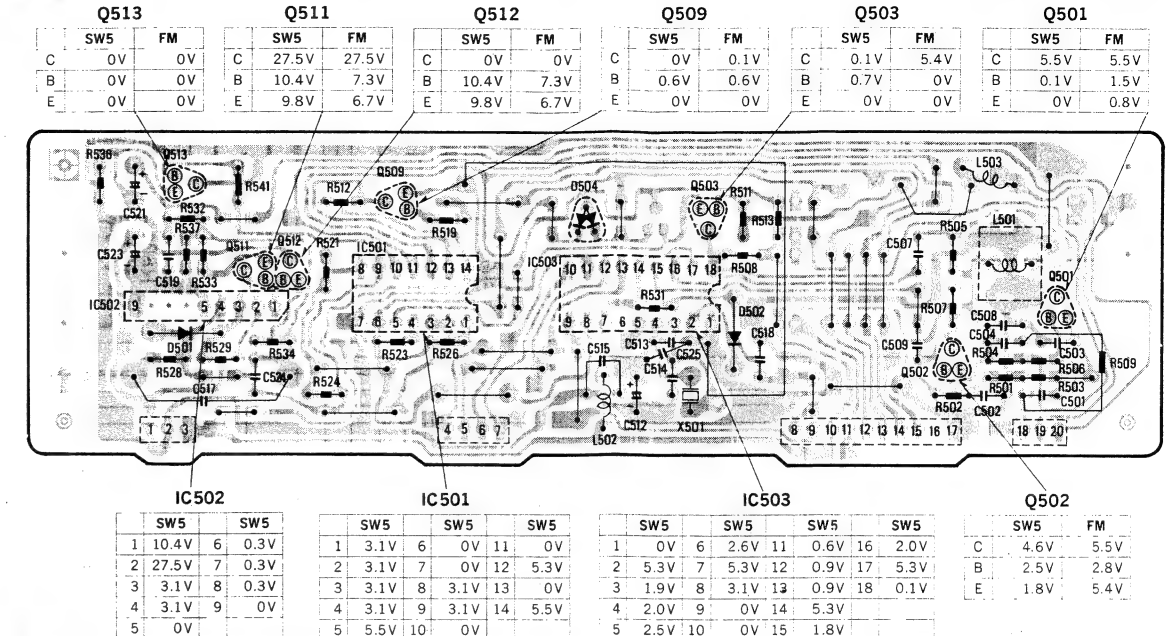
SCHEMATIC DIAGRAM (CONTROL, FREQUENCY DISPLA



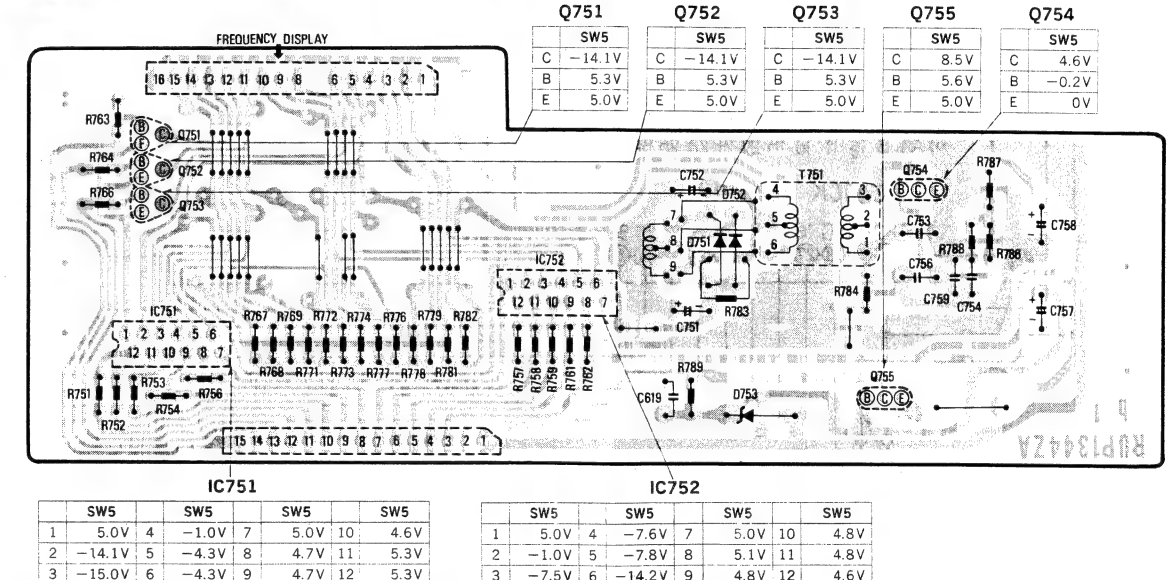
CONTROL CIRCUIT BOARD



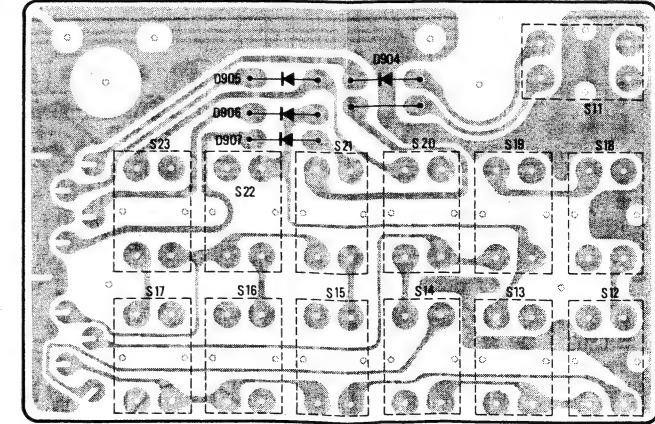
PLL CIRCUIT BOARD



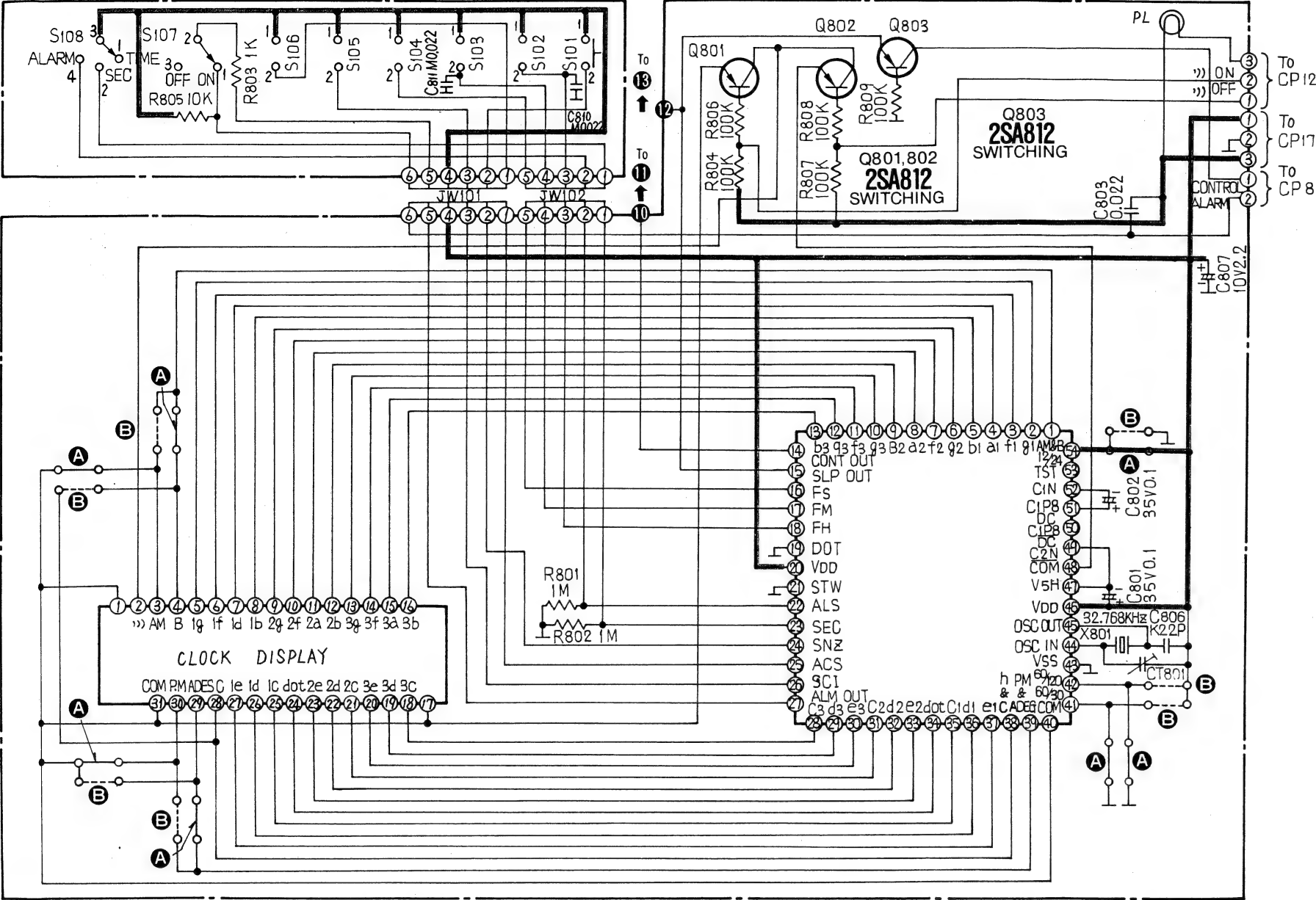
FREQUENCY DISPLAY CIRCUIT BOARD



KEY BOARD CIRCUIT BOARD

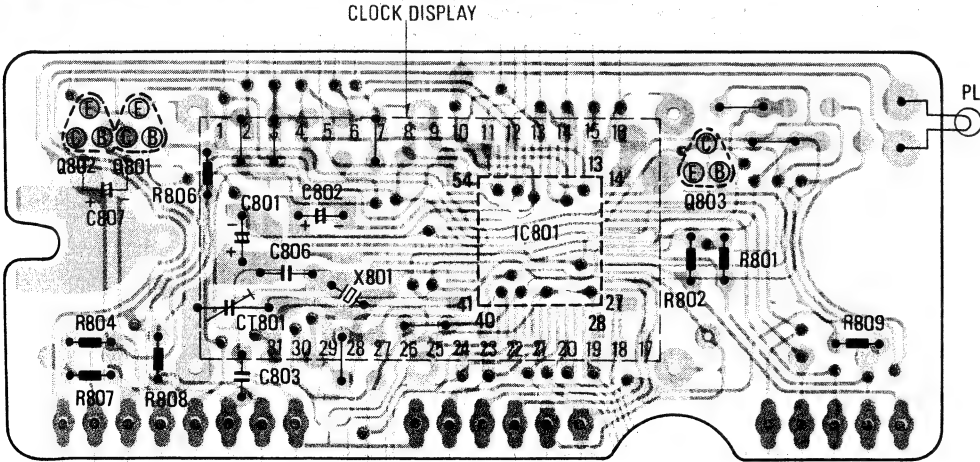


SCHEMATIC DIAGRAM (CLOCK & SWITCH CIRCUIT BOARD)

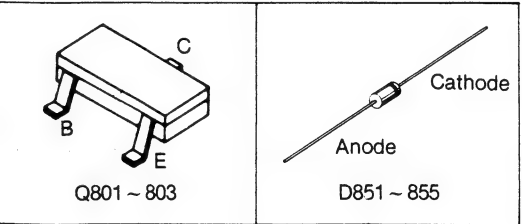
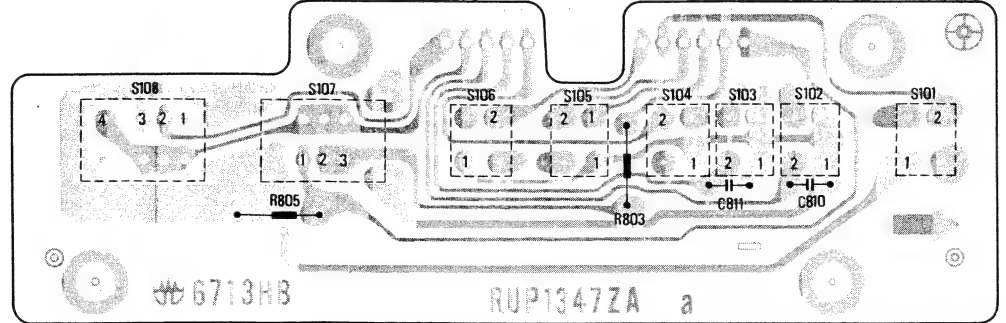


NOTE: The clock section is designed for 24H & 12H indication.
 A : 24H indication
 B : 12H indication

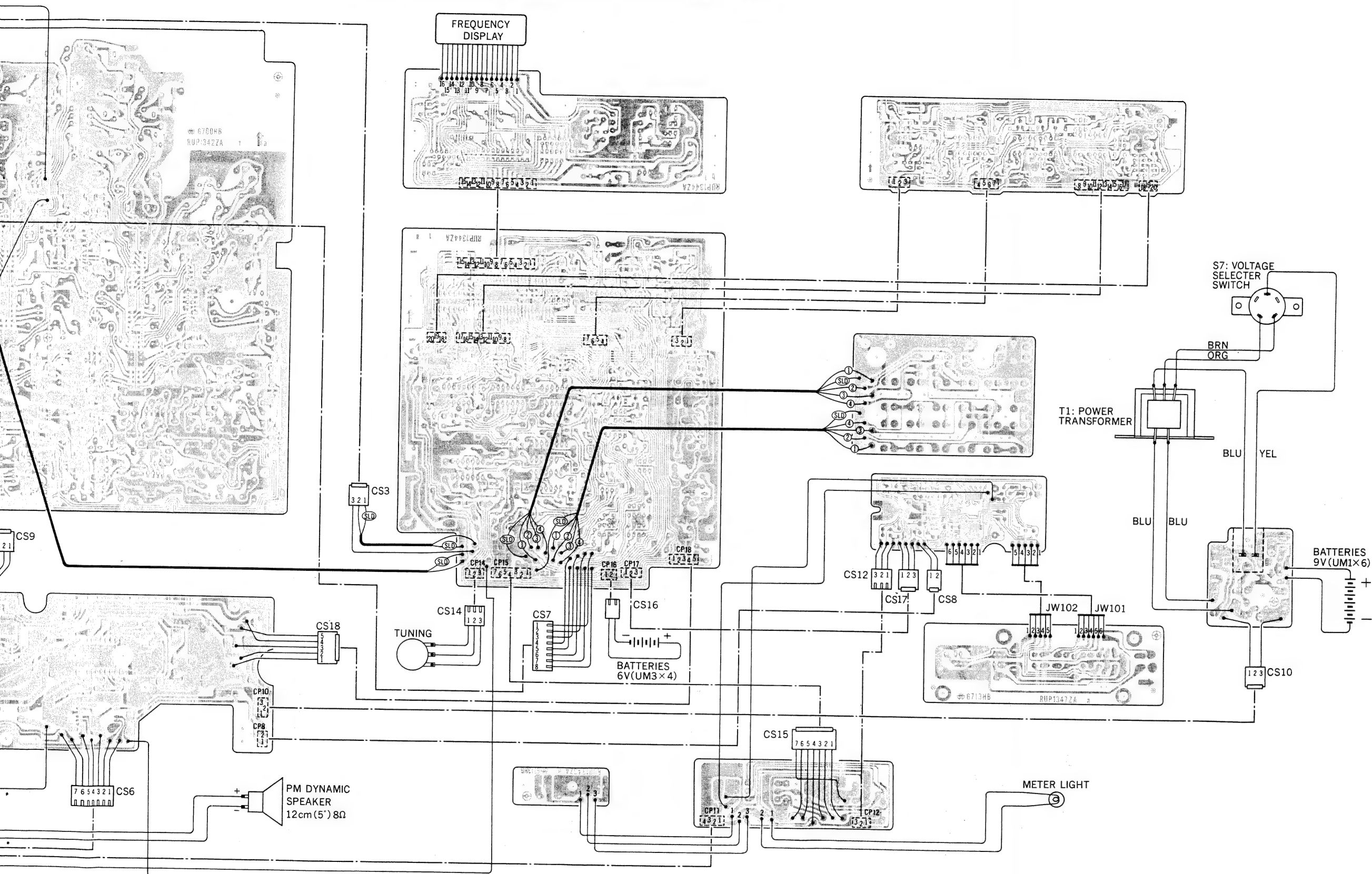
CLOCK CIRCUIT BOARD



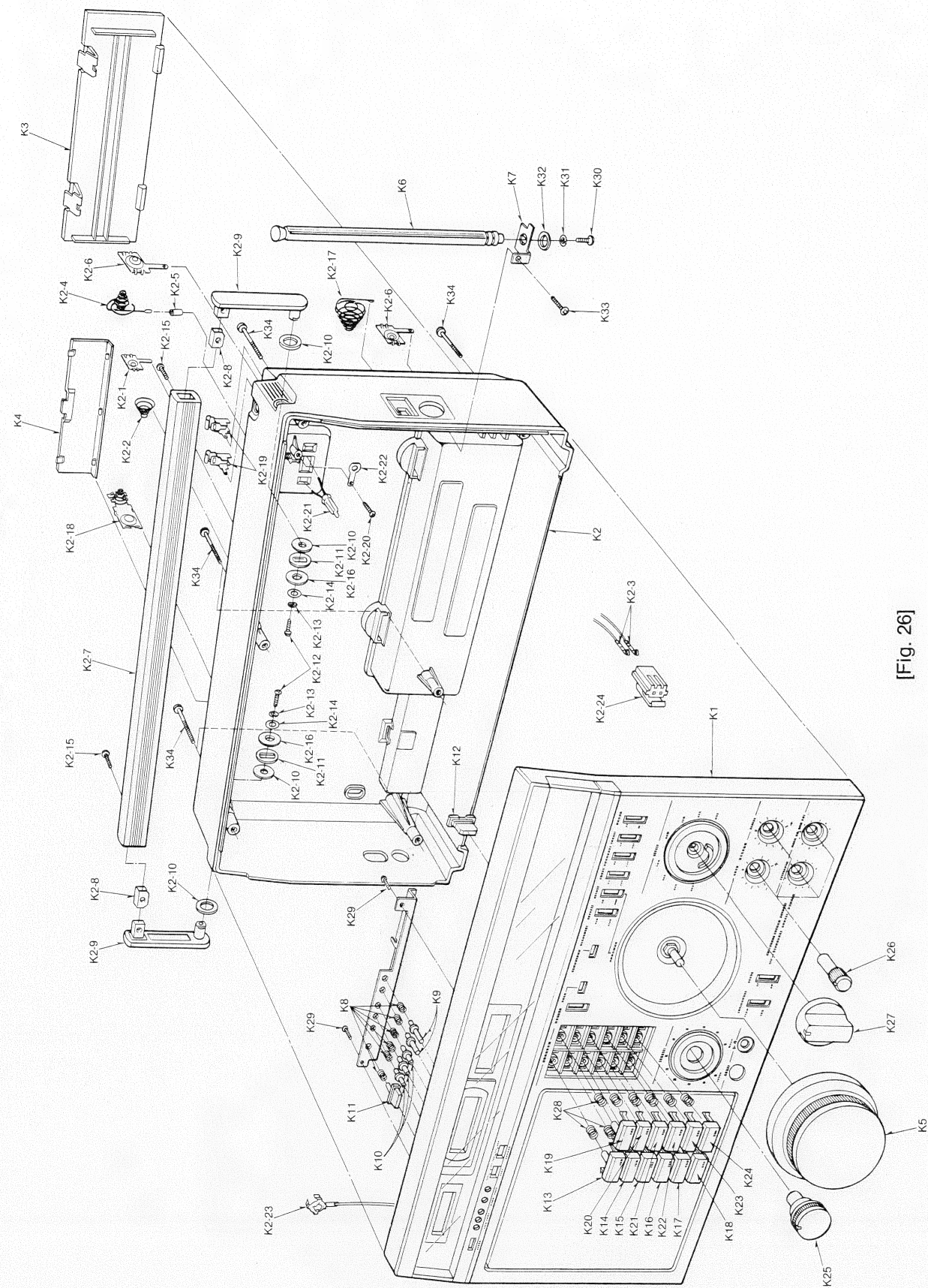
SWITCH CIRCUIT BOARD (CLOCK)



WIRING CONNECTION DIAGRAM MODEL RF-6300LBS

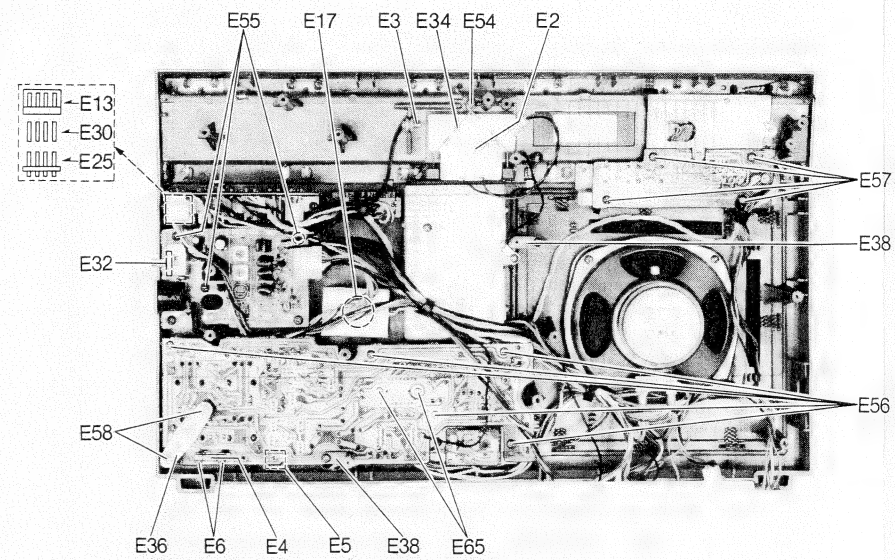


CABINET PARTS

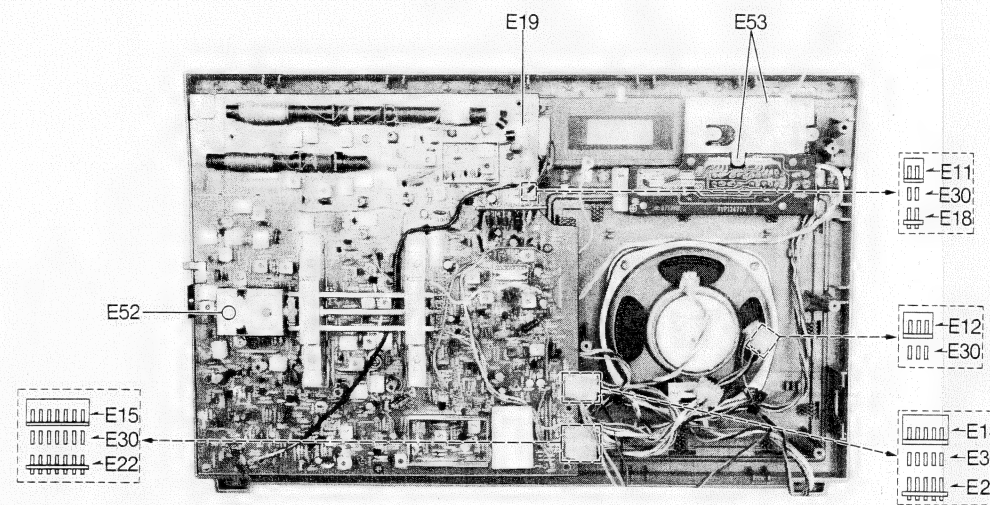


[Fig. 26]

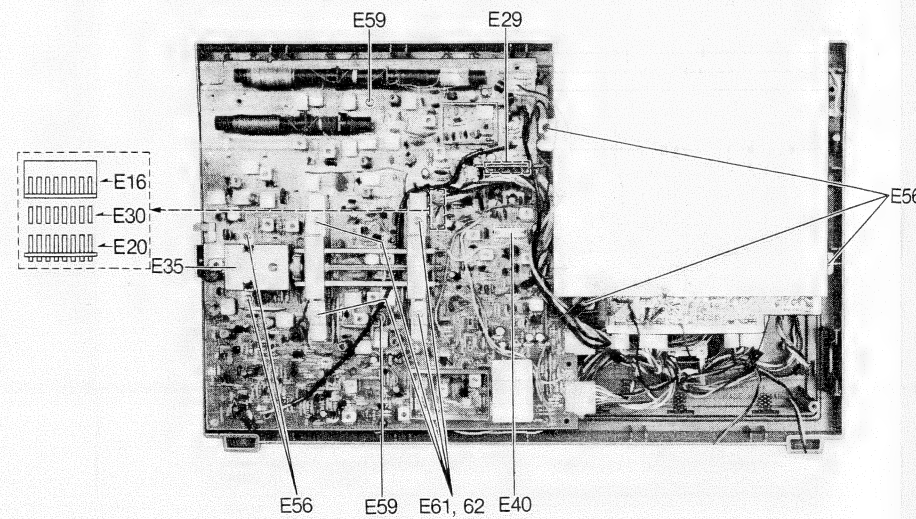
ELECTRICAL PARTS



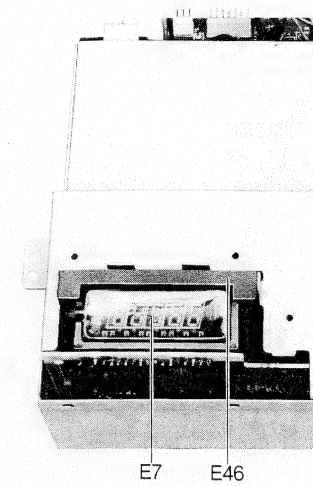
[Fig. 27]



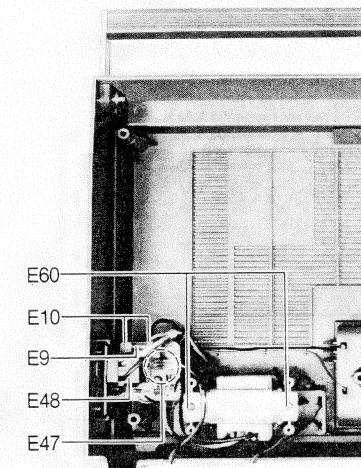
[Fig. 29]



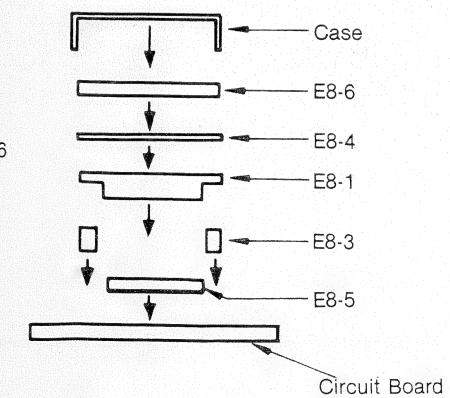
[Fig. 31]



[Fig. 28]



[Fig. 30]

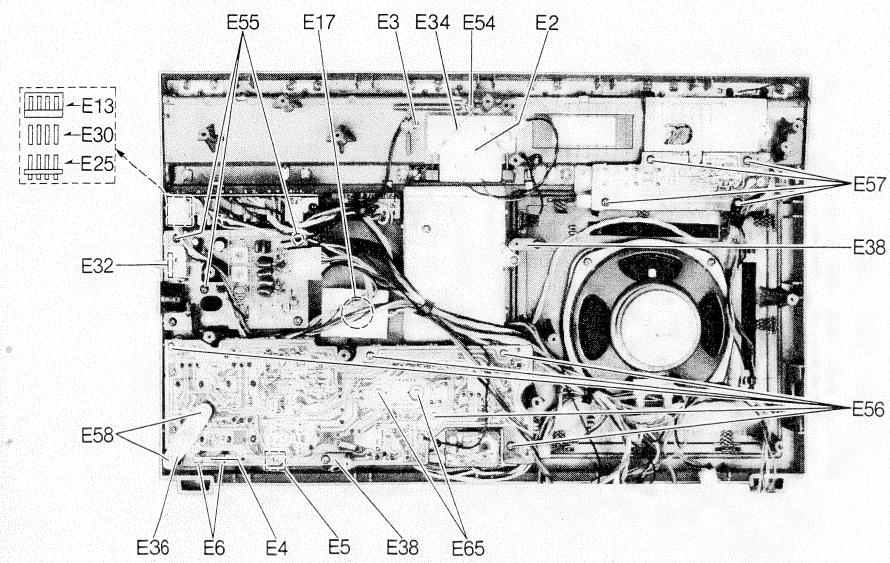


[Fig. 32]

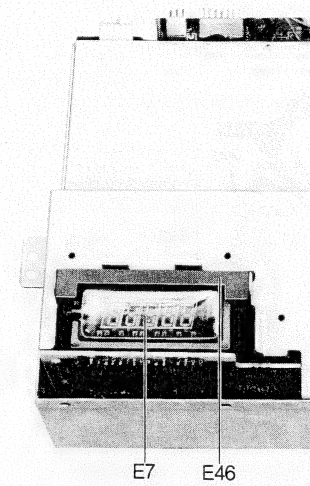
E8
E33
E8-2
E49

E39

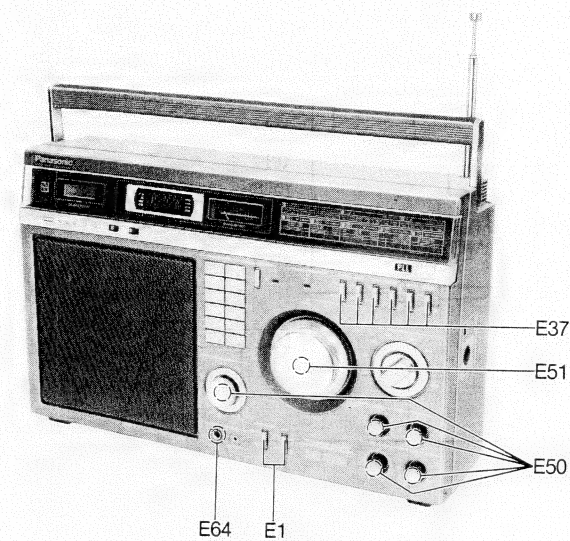
ELECTRICAL PARTS



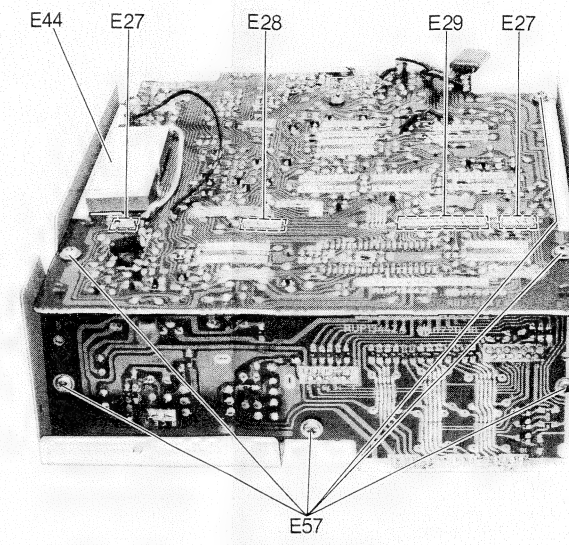
[Fig. 27]



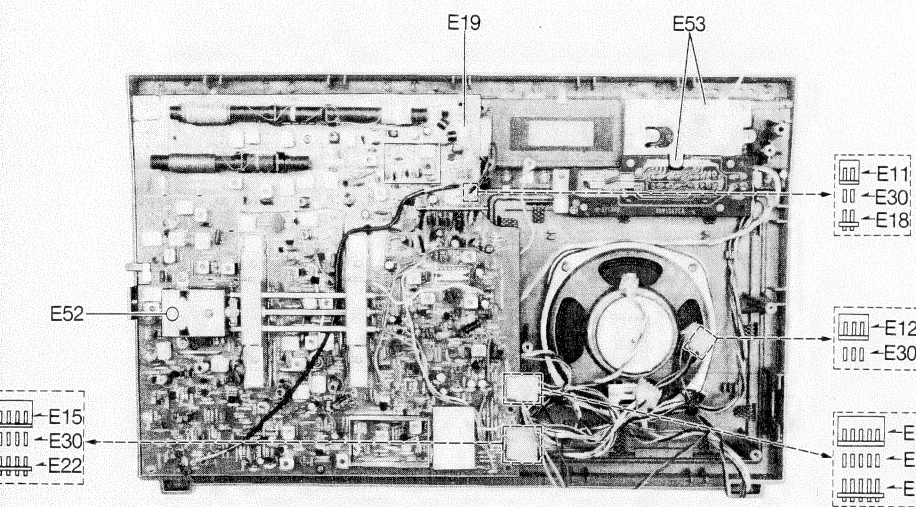
[Fig. 28]



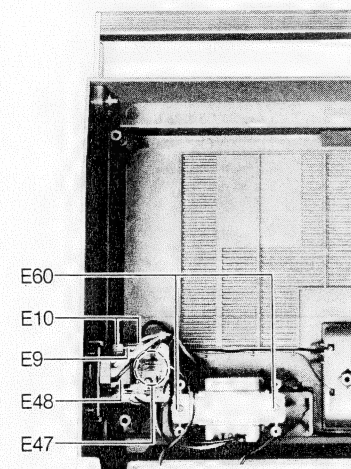
[Fig. 33]



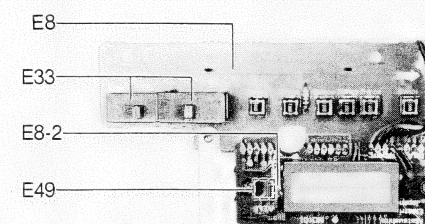
[Fig. 34]



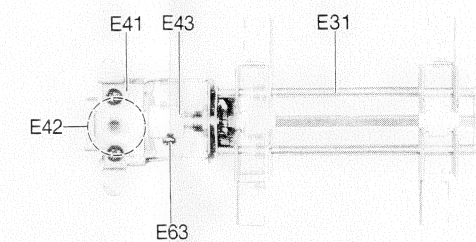
[Fig. 29]



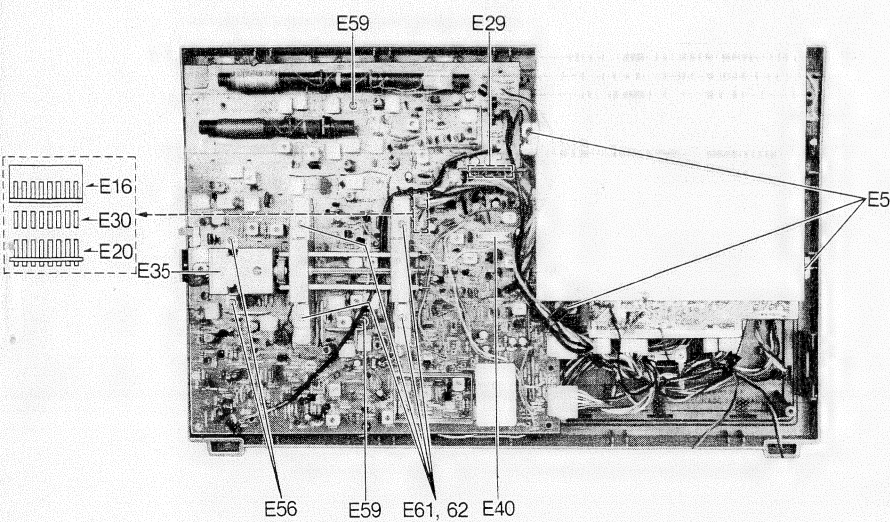
[Fig. 30]



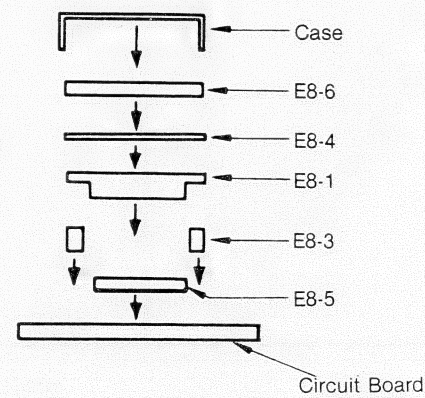
[Fig. 35]



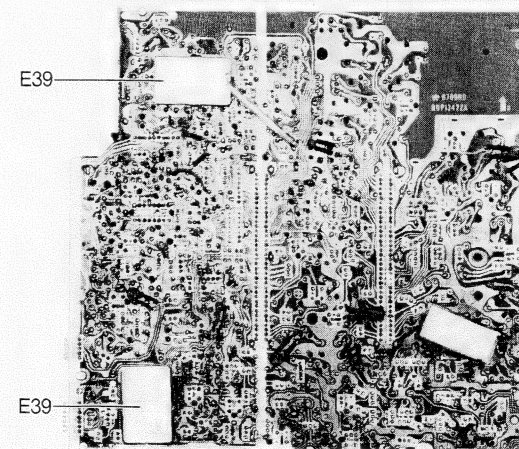
[Fig. 36]



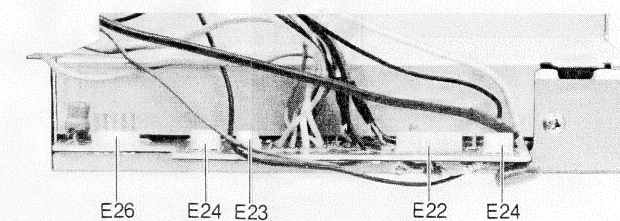
[Fig. 31]



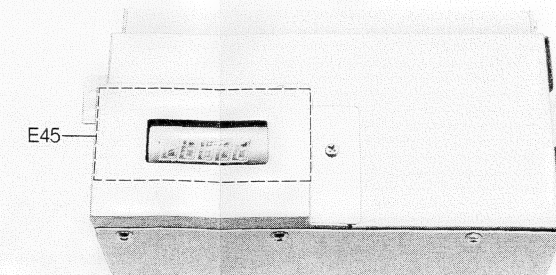
[Fig. 32]



[Fig. 37]



[Fig. 38]



[Fig. 39]

■ REPLACEMENT PARTS LISTModel RF-6300LBS (RD81035193S2)

NOTES: 1. Δ indicates that only parts specified by the manufacturer be used for safety.
2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		INTEGRATED CIRCUITS, TRANSISTORS AND DIODES		
IC101	RVILA1210	IC	1	
IC501	RVIMC14016B	IC	1	
IC502	AN7911	IC	1	
IC503	MN6147	IC	1	
IC601,651	RVIMC4069UB	IC	2	
IC602~604	RVIMC14001B	IC	3	
IC605,606	RVIMC4013B	IC	2	
IC652	RVIMP4763	IC	1	
IC653	MN1203	IC	1	
IC751,752	RVITA57	IC	2	
IC901	RVILA4125	IC	1	
Q101,201, 304,908	209,300, 667	Transistor (Si)	7	
Q102,106, 323,324	210,312,317, 326,329	Transistor (Si)	9	
Q103,104, 211~213, 311,313	107,205,206, 302,306~309, 314	Transistor (Ge)	16	
Q108,109, 310,327, 907,951	112,207, 902,906, 952	Transistor (Si)	11	
Q113,115	2SC945 116,904	Transistor (Ge)	4	
Q117,204	2SA564 301,325	Transistor (Si)	4	
Q303	2SC1684	Transistor (Si)	1	
Q305	2SK104	Transistor (Si)	1	
Q501,502	2SC1583	Transistor (Si)	2	
Q503,509	2SC2295	Transistor (Si)	8	
Q512,607~ 664,666	511,513, 665,670	Transistor (Si)	22	
Q663,668	2SC1623 609,652~661, 751~753,801~803	Transistor (Ge)	3	
Q672	2SA812	Transistor (Si)	1	
Q671	2SD352	Transistor (Si)	1	
Q754,901	2SC1567	Transistor (Si)	2	
Q755	2SD601	Transistor (Si)	1	
Q903	2SC2001	Transistor (Ge)	1	
	2SD1302	Transistor (Si)	1	
	2SB544	Transistor (Ge)	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
Q953,954	2SC828	Transistor (Si)	2	
D101,102	103	Diode (Si)	3	
D104,106, 202,663	MA323RR 201, 666	Diode (Ge)	6	
D107,108	OA90	Diode (Si)	2	
D205,208, 220~222, 501,502, 615,661, 752,904~	MA27B1 209,211,212, 307~318,320, 602,603,609, 664,665,751, 907,909	Diode (Si)	37	S
D601,604	MA161 607	Diode (Si)	3	
D213	MA151WK	Diode (Si)	1	
D214	RVDKB265G	Diode (Si)	1	S
D216~219	RVDSB113	Diode (Si)	4	S
D301,302	20A90	Diode (Ge)	1	
D658,660	303 RVDKV1225S. 753,903	Diode (Si)	4	
D662	RVDEQA0105T	Diode (Si)	1	
D851~855	RVDRD30EB2	Diode (Si)	5	S
D504,612	SM112	Diode (Si)	4	
D901,902	617,651	Diode (Si)	2	
D908	MA151WA	Diode (Ga)	1	
	LN217RP	Diode (Si)		
	MA27B2TA	Diode (Si)		
		CRYSTAL		
X201	RVCX3055NRN	Crystal (3.055MHz)	1	
X501	RVCA4500NZN	Crystal (4.5MHz)	1	
X801	RVCQ32N5Z1	Crystal	1	
		COILS AND TRANSFORMERS		
L101	SLA4N2	Antenna 1st Coil, FM	1	
L102	RLO4N134	Antenna 2nd Coil, FM	1	
L104	RLD4M10	Oscillator Coil, FM	1	
L203	RLO9M8	BFO Coil	1	
L204	RLO3M17	2nd Local Coil, SW1	1	
L301	RLF6F22	Antenna Coil, LW, MW	1	
L303	RLF3W2	Antenna 1st Coil, SW1	1	
L304,309	RLA3M12	Antenna 1st, 2nd Coil, SW2	2	
L305,311	RLO3M12	Antenna 1st, 2nd Coil, SW3	2	
L306,312	RLA3N19	Antenna 1st, 2nd Coil, SW4	2	
L307	RLA3N21	Antenna Coil, SW5	1	
L308	RLO3M21	Antenna 2nd Coil, SW1	1	
L313	RLA3N20	Antenna 1st, 2nd Coil, SW5	1	
L314	RLO1M10	Oscillator Coil, LW	1	
L316	RLO2M27	Oscillator Coil, MW	1	
L317	RLO3M25	Oscillator Coil, SW1	1	
L318	RLO3M24	Oscillator Coil, SW2	1	
L319	RLO3M80	Oscillator Coil, SW3	1	
L321	RLO3N13	Oscillator Coil, SW4	1	
L322	RLO4N78	Oscillator Coil, SW5	1	
L952	RLE5023	Notch Filter, 2.5KHz	1	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
L953,954	RLE5024	Notch Filter, 5, 7.5KHz	2	
T1	RLT5U13	Power Transformer	1	
T100	RLI4M103	IF Trap, FM	1	
T101,102	RLI4M101	IFT, FM	2	
T103	RLI2M402	Detector, AM	1	
T201,203	RLI2M204	IFT, AM	2	
T202,207,	208			
	RLI2M207	IFT, AM	3	
T204	RLI9M1	1st IFT, 2.6MHz	1	
T206	RLI9M2	1st IFT, 2.6MHz	1	
T651	RLT9Z4	DC-DC Converter Transformer	1	
T751	RLT9F2	DC-DC Converter Transformer	1	
VARIABLE RESISTORS				
VR101	EVNK4AA00B13	Preset, 1k Ω (B), Meter Control	1	
VR901,902,	905			
	EVH7XAF20B54	Variable Resistor, 50k Ω (B), Bass, Treble & BFO Pitch Control	3	
VR903	EVH7XAF20D54	Variable Resistor, 50k Ω (D), Volume Control	1	
VR904	EVH7XAF20A54	Variable Resistor, 50k Ω (A), RF Gain Control	1	
VARIABLE CAPACITORS				
CT101,102	RCV1PX10AGS	Trimmer Capacitor	2	
CT103,301	~303,309			
	RCV1PX20AGS	Trimmer Capacitor	5	
CT801	RCVTCX28	Trimmer Capacitor	1	
CT304,306,	307,308,311			
	314,316			
	~319,321~323			
	RCV1PX30AGS	Trimmer Capacitor	15	
CERAMIC FILTERS				
CF101~103	RVFCF10M12FR	Ceramic Filter	3	
CF104	RVFCFU455JT5	Ceramic Filter	1	
THERMISTER				
TH1	RRT302	Thermister	1	
SPEAKER				
SP	EAS12P83GG	Speaker, 12cm (5"), 8 Ω	1	
SWITCHES				
S1~6	RSHX029Z	Switch, Selector	1	
S7	RSR4A04Y	" Voltage Selector	1	⚠
S8	Refer to J3	" AC/DC Selector	1	
S9,10	RSH2B18Z	" BFO & Band Width	2	
S11~23	RSH1A20Z	" Cancel/Memory & Channel	13	
S24	RSS42A	" Radio/Phone Selector	1	
S101~106	EVQQ4R13K	" Clock	6	
S107	RSS2B23Z	" Chirp	1	
S108	RSS3B11Z	" Clock Display	1	
S301,302	ESRK68S1	" Band Selector	2	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
JACKS				
J1	RJJ19Z	Jack, Earphone	1	
J2	RJJ108Y	" Headphones	1	
J3	QJS0329	" AC/DC IN	1	⚠
J4	RJS15A	" DIN	1	
RESISTORS (Value is in OHMS)				
R101,114,	116,122,			
	123,127,			
	146,239,			
	249,355,			
	271			
R1,102,108	~111,115,139,	220 1/4W Carbon	11	S
	150,214,			
	216,219,224,			
	246,273,			
	310,319,324,			
	329,358,			
	359,361,415,			
	416,805,			
	921,925,952			
	ERD25FJ221			
R1,102,108	~111,115,139,	10 k " "	28	S
	150,214,			
	216,219,224,			
	246,273,			
	310,319,324,			
	329,358,			
	359,361,415,			
	416,805,			
	921,925,952			
	ERD25FJ103			
R103,231,	236,257,259,			
	306,308,			
	321,907,912,			
	935,961,			
	962,209,290			
	ERD25FJ472			
R104,318,	934,936,132	4.7 k " "	15	S
	ERD25TJ683			
	ERD25FJ100			
R338	ERD25FJ100	68 k " "	5	S
R325,509	ERD25FJ330	10 " "	1	S
R304,305,	360,942,943	33 " "	2	S
	ERD25FJ470			
	ERD25FJ182			
R311	ERD25FJ182	47 " "	5	S
R131	ERD25FJ820	1.8 k " "	1	S
R203,314,	323,411,412,	82 " "	1	S
	413,120,			
	933,148			
	ERD25FJ101			
R303	ERD25FJ151	100 " "	9	S
R107,117,	232	150 " "	1	S
	ERD25FJ471			
	ERD25FJ393			
R931	ERD25FJ393	470 " "	3	S
R128	ERD25FJ561	39 k " "	1	S
R113,119,	125,247,	560 " "	1	S
	312,906,			
	402			
	ERD25FJ681			
R121,126,	153,155,200,			
	202,223,			
	230,242,243,			
	248,254,			
	256,258,313,			
	332,334,			
	336,344,352,			
	353,391,			
	404,639,803,			
	932,928			
	ERD25FJ102			
R143,400,	401,951	1 k " "	27	S
	ERD25FJ152			
	ERD25FJ152			
R137,218,	229,237,	1.5 k " "	4	S
	291,406,			
	407,138,			
	908,941,			
	957			
	ERD25FJ222			
R144,241,	322,328,944,	2.2 k " "	11	S
	954,958,			
	964,685			
	ERD25FJ332			
R129,956	ERD25FJ392	3.3 k " "	9	S
		3.9 k " "	2	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R118,134,911,913	265,392,645,914,923	22 k 1/4W Carbon	9	S
R112,124,161,208,262,272	ERD25FJ223 133,158,226,244,317,396	33 k " "	12	S
R270	ERD25FJ333	820 k " "	1	S
R106,145,302,604	ERD25TJ824 205,253,922,937	47 k " "	8	S
R147,152,233,252,335,341	ERD25FJ473 160,206,207,260,300,327,343,901	100 k " "	15	S
R151,251,953,963	ERD25TJ104 309,397,967	150 k " "	7	S
R136,142	ERD25TJ154 393,905,938	220 k " "	5	S
R394,301	ERD25TJ224	330 k " "	2	S
R159,255	ERD25TJ334 263,264	330 " "	4	S
R238	ERD25FJ331	680 k " "	1	S
R201,261	ERD25TJ684 603	1 M " "	3	S
R141,149	ERD25TJ105 345	6.8 k " "	3	S
R140,640	ERD25FJ682	15 k " "	2	S
R966	ERD25FJ153	56 k " "	1	S
R130,135,340,349	ERD25FJ563 204,228,339,350,356,357	47 1W Metal Oxide	10	S
R920	ERD25FJ682	15 1/4W Carbon	1	S
R156	ERD25FJ821	820 " "	1	S
R157	ERD25FJ122	1.2 k " "	1	S
R533,534	RRD18XK101	100 1/8W Chip	2	
R507	RRD18XK221	220 " "	1	
R504,686	RRD18XK471	470 " "	2	
R503	RRD18XK681	680 " "	1	
R505,532	RRD18XK102 647,783	1 k " "	4	
R521	RRD18XK152	1.5 k " "	1	
R697	RRD18XK153	15 k " "	1	
R508,512,536,541	RRD18XK103 513,524,528,688,701	10 k " "	9	
R501,502,638,657,673,676	RRD18XK103 523,609,637,663,668,671,703,666,704	22 k " "	15	
R537,616	RRD18XK223	33 k " "	2	
R529	RRD18XK184	180 k " "	1	
R506	RRD18XK474	470 k " "	1	
R330	ERD25FJ220	22 1/4W Carbon	1	S
R430	ERD25FJ153	15 k " "	1	S

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R511,519,654,659,662,664,667,669,672,674,677,678,751~754,756~759,761~764,766~769,771~774,776~779,781,782,606,607,804,806~809	617~619,648,654,659,662,664,667,669,672,674,677,678,751~754,756~759,761~764,766~769,771~774,776~779,781,782,606,607,804,806~809	100 k 1/8W Chip	49	S
R684,939	RRD18XK104	150 1W Metal Oxide	2	
R789	RRD18XK821	820 1/8W Chip	1	
R687,784	RRD18XK122	1.2 k " "	2	
R788	RRD18XK222	2.2 k " "	1	
R801,802	RRD18XK105	1 M " "	2	
R526,702	RRD18XK332	3.3 k " "	2	
R658,661	RRD18XK472	4.7 k " "	3	
R699	RRD18XK682	6.8 k " "	1	
R786,787	RRD18XK392	3.9 k " "	2	
R711	RRD18XK393	39 k " "	1	
R679,681	RRD18XK473	47 k " "	5	
R691	RRD18XK154	150 k " "	1	
R693	RRD18XK224	220 k " "	1	
R692	RRD18XK394	390 k " "	1	
R605	RRD18XK334	330 k " "	1	
R531,601,641,644	602,611,631,694,696	1 M " "	9	
R904,924	RRD18XK105	1.5 M 1/4W Carbon	3	S
R927,930	ERD25TJ155	82 k " "	2	S
		ERD25TJ823		
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C312	ECCD1H151K	150 P 50V Ceramic	1	
C350,359	ECCD1H390KC	39 P " "	2	
C242	ECCD1H010C	1 P " "	1	
C116,129	ECCD1H020C	2 P " "	2	
C124	ECCD1H030C	3 P " "	1	
C231,259	ECCD1H050CC	5 P " "	2	
C1,101,117,300,308,333,336,337,363,365~367,377,381,391,392	ECCD1H100KC	10 P " "	16	
C301	ECCD1H120KC	12 P " "	1	
C119	ECCD1H150KC	15 P " "	1	
C237,303,416	ECCD1H180KC	18 P " "	3	
C248,338,412,414	ECCD1H220KC	22 P " "	4	
C239,304,393	ECCD1H330KC	33 P " "	3	
C112,417	ECCD1H470KC	47 P " "	2	
C271	ECCD1H680K	68 P " "	1	

Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	Ref. No.	Part No.	Part Name & Description			Per Set	Remarks	
C111,114, 122,157, 383,386, 618	118,121, 159,261, 618						C212,213, 668,901,	632,661,662, 904,922,951						
	ECKD1H102MD	0.001	50V	Ceramic	11			ECEA50Z1	1	50V	Electrolytic	10	S	
C201,634	ECKD1H102ZF	0.001	"	"	2		C162,666	ECEA50Z2R2	2.2	"	"	2	S	
C104,106, 143,144, 224,230, 267,281, 321,323, 250,382, 407,408,	108,133,138, 149,204,223, 255,290,253, 310,317,320, 325,329,330, 384,389,406, 335,851~854						C254,603, 912,914,	902, 952						
	ECKD1H103ZF	0.01	"	"	38			ECEA50ZR1	0.1	"	"	6	S	
C131,135~ 161,147, 378,525, 619	137,158, 267,349, 619						C410,631	ECEA50ZR33	0.33	"	"	2	S	
	ECKD1H103MD	0.01	"	"	12		C517	ECQE1335KZ	3.3	100V	Polyester	1		
C241,246,	907						C513	ECUX1H390KC	39 P	50V	Chip	1		
	ECKD1H682MD	0.0068	"	"	3		C514	ECUX1H820KC	82 P	"	"	1		
C151,205, 238,390, 811,920,	206,233, 398,810, 291,617						C507,608	ECUX1H102ZF	0.001	"	"	2		
	ECFTD223MD	0.022	25V	"	12		C524	ECUX1H222MD	0.0022	"	"	1		
C139,141,	146,908,165						C509,515, 623,624,	604,612,614, 651,654,656, 667,605,						
	ECFTD473MD	0.047	"	"	5			ECUX1H103ZF	0.01	"	"	13		
C203,909	ECFVD333MD	0.033	"	"	2		C519	ECUX1H103MD	0.01	"	"	1		
C228,264,	926,257						C502,504, 652,754,	508, 803						
	ECKD1H471KB	470 P	50V	"	4			ECUX1H223ZF	0.022	"	"	6		
C145	ECFVD683MD	0.068	25V	Semi-Conductor	1		C518,602	ECUX1H223MD	0.022	"	"	2		
C326,327,	347,403						C501,680	ECUX1H101KD	100 P	"	"	2		
	ECKD1H223MD	0.022	50V	Ceramic	4		C678	ECUX1H680KC	68 P	"	"	1		
C306,413	ECMS05560KH	56 P	"	Mica	2		C657	ECKD1H681KB	680	"	Ceramic	1		
C334,415	ECMS05680KH	68 P	"	"	1		C653	ECUX1H330KC	33 P	"	Chip	1		
C243	ECMS05820KH	82 P	"	"	2		C621	ECUX1H331KD	330 P	"	"	1		
C234,251	ECMS05121JH	120 P	"	"	1		C503,609, 611	ECUX1H102MD	0.001	"	"	3		
C759	ECQG05473MZ	0.047	"	Polyester	1		C628,670~ 677	ECUX1H472MD	0.0047	"	"	9		
C236	ECMS05161JH	160 P	"	Mica	1			ECUX1H220KC	22 P	"	"	1		
C351	ECMS05131JH	130 P	"	"	1		C806	ECUX1H220KC	22 P	"	"	1		
C411	ECMS05680JH	68 P	"	"	1		C757,758	ECEA0JS102	1000	6.3V	Electrolytic	2	S	
C364	ECMS05820JH	82 P	"	"	1		C658	ECEA1CS221	220	16V	"	1	S	
C352	ECQS2B471JZ	470 P	125V	Styrol	1		C751	ECEA1VS330	33	35V	"	1	S	
C263	ECQS2B561JZ	560 P	"	"	1		C659	ECEA1HS470	47	50V	"	1	S	
C354	ECQS2B821JZ	820 P	"	"	1		C322	ECEA50Z3R3	3.3	"	"	1	S	
C356,357	ECQS2B152JZ	1500 P	"	"	2		C523,665, 752,753	ECEA1JS4R7	4.7	63V	"	4	S	
C353	ECQS2B182KZ	1800 P	"	"	1			601	ECEA50ZR22	0.22	50V	"	3	S
C358	ECQS2B222KZ	2200 P	"	"	1		C409,521,	ECEA50ZR47	0.47	"	"	1	S	
C134,142, 318,399,	202,266, 400,940						C924,927	ECCD1H270KC	27 P	"	"	2		
	ECEA1CS330	33	16V	Electrolytic	8	S	C154,163, 906	ECKD1H222MD	0.0022	"	"	3		
C156,164,	171,663						C244,269,	930						
	ECEA1AS470	47	10V	"	4	S		ECCD1H331K	330 P	"	"	3		
C148,152, 266,664,	166,227,229, 923,931						C911	ECKD1H332MD	0.0033	"	"	1		
	ECEA1AS101	100	"	"	9	S	C610,934,	937,756						
C512,606	ECEA1HS100	10	50V	"	2	S		ECQG05224MZ	0.22	"	Polyester	4		
C770	ECCD1H331K	330 P	"	Ceramic	1		C655,905, 964	ECEA1AS221	220	10V	Electrolytic	3	S	
							C669,921, 932,933	ECEA1ES101	100	25V	"	4	S	
							C913,812	ECEA1CS471	470	16V	"	2	S	
							C936,938	ECEA1CS102	1000	"	"	2	S	

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C939	ECEA1CS222	2200 16V Electrolytic	1	S	K26	RBN489X	Knob, Tone, BFO Pitch & RF Gain	4	
C953,954	ECQG05473KZ	0.047 50V Polyester	2		K27	RBS173Z	Knob, Band Selector	1	
C956~959	ECQG05104KZ	0.1 " "	4		K28	RUS2B	Spring, Preset Button	12	
C807	ECSFLAM225	2.2 10V Electrolytic	1		K29	XTN23+8C	Screw	2	
C801,802	ECSFLVM104	0.1 35V "	2		K30	XSN3+8S	Screw	1	S
		CABINET PARTS			K31	XWA3B	Washer	1	S
K1	RYMF6300LBS8	Front Cabinet Ass'y	1		K32	XWG3	Washer	1	S
K2	RYFF6300LBS7	Rear Cabinet Ass'y	1		K33	XTV3+12G	Screw	1	
K2-1	RJC717A	Battery Terminal, Back-up + Side	1		K34	XTB3+35BFN	Screw	6	S
K2-2	RJC322Z	Battery Spring, Back-up - Side	1				ELECTRICAL PARTS		
K2-3	RJT462Z	Terminal, Socket	2		E1	RYT1F6300LBS	Button Ass'y, Band Width & BFO	2	
K2-4	RJC505Z	Battery Spring, - Side	1		E2	RSM1601Z	Meter	1	
K2-5	RJT398Y	Pipe, Battery Spring	1		E3	XAMR43S250A	Pilot Lamp	1	
K2-6	RJC111Z	Battery Terminal, + Side	2		E4	XBA2C03TR0	Fuse	1	△
K2-7	RKX206Z	Handle	1		E5	XBE10M96S	Fuse	1	△
K2-8	RKX207Z	Spacer, Handle	2		E6	RJF7A	Fuse Holder	2	△
K2-9	RKX180Z	Arm, Handle	2		E7	RAD5BT-11	Frequency Display	1	
K2-10	RNW824Y	Nylon Washer, Handle	4		E8	RSC19610Y	Clock Ass'y	1	
K2-11	RHM58Z	Washer, Handle	2		E8-1	RADLDBU122D	LCD	1	
K2-12	XSN3+8S	Screw	2	S	E8-2	XAMR87T25	Pilot Lamp	1	
K2-13	XWA3B	Washer	2	S	E8-3	RHG5003Z	Zebra	2	
K2-14	XWG3	Washer	2	S	E8-4	RHR1074Z	Spacer	1	
K2-15	XTB3+8BFN	Screw	2	S	E8-5	RDH158Z	Reflection Plate	1	
K2-16	XWG3FL3	Washer	2		E8-6	RGP562Z	Polarization Plate	1	
K2-17	RJC508Z	Battery Spring, - Side	1		E9	XBA2C16TR0	Fuse	1	△
K2-18	RJC730Z	Battery Terminal, + - Side	1		E10	QTF1054	Fuse Holder	2	△
K2-19	RJF1065Z	Terminal, EXT ANT	2		E11	RJS171Z	Socket (2P), CS2 & CS8	2	
K2-20	XTV3+10G	Screw	1		E12	RJS253Y	Socket (3P), CS3, 10, 12, 14, 17	5	
K2-21	XANR2T20	Arrester	1		E13	RJS216Y	Socket (4P), CS11	1	
K2-22	RJT202B	Terminal	1		E14	RJS217Y	Socket (5P), CS5, 18	2	
K2-23	RJT514Z	Terminal	1		E15	RJS219Y	Socket (7P), CS6, 9, 15	3	
K2-24	RJS171Z	Socket, 2 Pin	1		E16	RJS264Y	Socket (8P), CS7	1	
K3	RYN1F6300LBS	Battery Cover Ass'y, Large	1		E17	EWTXD4S2540B	Rotary Encoder	1	
K4	RYN2F6300LBS	Battery Cover Ass'y, Small	1		E18	RJP213Z	Plug (2P), CP2	1	
K5	RYT2F6300LBS	Tuning Knob Ass'y	1		E19	RJP137Z	Plug (3P), CP3 & CP12	2	
K6	XEARS158HAY	Telescopic Antenna	1		E20	RJP171Z	Plug (8P), CP7	1	
K7	RMA151Z	Bracket, Telescopic Antenna	1		E21	RJP136Z	Plug (5P), CP5	1	
K8	RDS3052Z	Spring, Clock Adjust	6		E22	RJP135Z	Plug (7P), CP6, CP9 & CP15	3	
K9	RBC306Z	Button, Sleep & Cancel	2		E23	RJP241Z	Plug (2P), CP8 & CP16	2	
K10	RBC307Z	" Time Set	3		E24	RJP133Z	Plug (3P), CP10, CP14, CP17	3	
K11	RBC308Z	" Doze	1		E25	RJP107Z	Plug (4P), CP11	1	
K12	RBC311Z	" Cancel/Memory	1		E26	RJP116Z	Plug (5P), CP18	1	
K13	RBC312Z	" CH1	1		E27	RJT665Z	Terminal, (3P)	2	
K14	RBC312Y	" CH2	1		E28	RJT671Z	Terminal, (4P)	1	
K15	RBC312X	" CH3	1		E29	RJT668Z	Terminal, (10P)	2	
K16	RBC312W	" CH4	1		E30	RJT462Z	Terminal, Socket	62	
K17	RBC312V	" CH5	1		E31	ESRK208F25A	Band Switch Shaft Ass'y	1	
K18	RBC312U	" CH6	1		E32	RUV612Z	Cover, Radio/Phone Switch	1	
K19	RBC312T	" CH7	1		E33	RUV613Z	Cover, Clock Display & Chirp	2	
K20	RBC312S	" CH8	1		E34	RUS423Z	Spring, Meter Mtg	1	
K21	RBC312R	" CH9	1		E35	RDF865Z	Shaft, Band Selector	1	
K22	RBC312Q	" CH10	1		E36	RKE350Z	Stay Shaft, P,C Board	1	
K23	RBC312P	" CH11	1		E37	RBC300Z	Button, Radio, Speed & etc.	6	
K24	RBC312N	" CH12	1		E38	RHR1023V	Stay Shaft, P,C Board	2	
K25	RBN551Z	Knob, Volume	1						

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
E39	RMC228A	Shield Plate	3	
E40	RMC171Y	Shield Plate, IC101	1	
E41	RMW201Z	Bracket, Band Selector	1	
E42	RDG5695Z	Gear, Band Selector	1	
E43	RDG5696Z	Gear, Band Selector	1	
E44	RMC736Z	Shield Plate	1	
E45	RGP671Z	Smoke Panel	1	
E46	RHG1011Z	Rubber, Frequency Display	1	
E47	RUV387Z	Cover, Voltage Selector Switch	1	△
E48	RUV603Z	Cover, AC/DC IN Jack	1	△
E49	RME259Z	Bracket, Lamp Holder	1	
E50	XNS8	Nut	6	
E51	XNS9FZ	Nut	1	
E52	XUC2FT	Circlip, Band Selector Shaft	1	S
E53	XTN23+8B	Screw	2	S
E54	XTV3+10G	Screw	1	
E55	XTV3+12G	Screw	21	
E56	XTV3+12GR	Red Screw	13	
E57	XTV3+6F	Screw	41	
E58	XTB3+35BFN	Screw	2	S
E59	XTW3+12QR	Red Screw	2	
E60	XYER3+BG14	Screw	2	
E61	XSN3+5S	Screw	4	S
E62	XWA3B	Washer	4	S
E63	XXAS3K5S	Screw	1	
E64	XNS12D	Nut	1	
E65	XYN3+F12	Screw	2	
ACCESSORIES				
	XEH1A1-P	Earphone	1	S
	RJA20Z	Power Cord, AC	1	△
	RQE13Z	Caution Tag	1	
PACKING MATERIALS				
	XZB60X50A04	Polyethylene Cover	1	
	XZB10X25A04	Polyethylene Cover	1	
	RPG2352Z	Packing Case	1	
	RPN9358Z	Pad	1	
	RPN3293Z	Pad	1	
	RPN3294Z	Pad	2	
	RPN3336Z	Pad	1	
	RPP401Z	Soft Cover	1	
PRINTED MATERIAL				
	RQX6642Z	Instruction Book	1	